

chain nodes :
29 30 31 34

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 21 22 23 24 25 26

chain bonds :
16-29 16-31 21-34 24-31 29-30

ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-14 6-16 7-8 7-12 8-9 8-16 9-10 9-15 10-11 11-12
14-15 21-22 21-26 22-23 23-24 24-25 25-26

exact/norm bonds :
5-14 6-16 8-16 9-15 14-15 16-29 16-31 21-22 21-26 21-34 22-23 23-24 24-25

normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:C,O,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 14:Atom 15:Atom 16:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom
29:CLASS 30:CLASS 31:CLASS 34:Atom

10/089024

=> s 11
SAMPLE SEARCH INITIATED 17:44:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1471 TO ITERATE

68.0% PROCESSED 1000 ITERATIONS 9 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

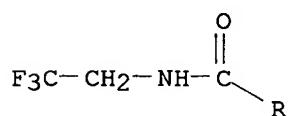
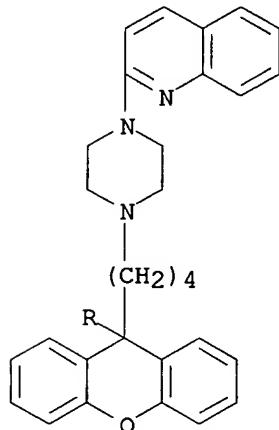
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 27120 TO 31720
PROJECTED ANSWERS: 46 TO 482

L2 9 SEA SSS SAM L1

=> d 12 1-9

10/089024

L2 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 348134-75-8 REGISTRY
CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C33 H33 F3 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

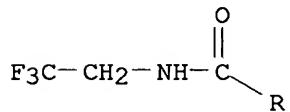
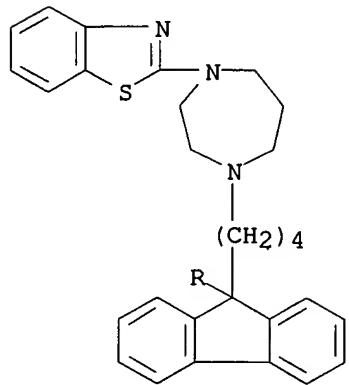


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

10/089024

L2 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 348134-10-1 REGISTRY
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H33 F3 N4 O S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

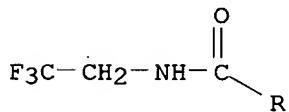
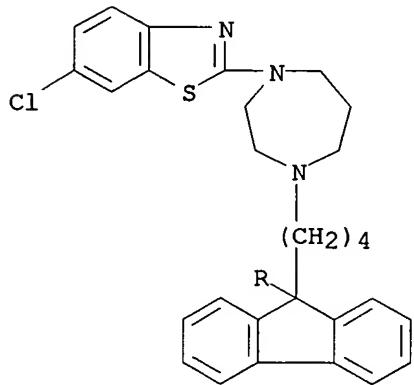


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

10/089024

L2 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 348134-08-7 REGISTRY
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(6-chloro-2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)
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MF C32 H32 Cl F3 N4 O S
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LC STN Files: CA, CAPLUS, USPATFULL

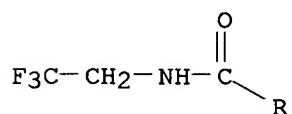
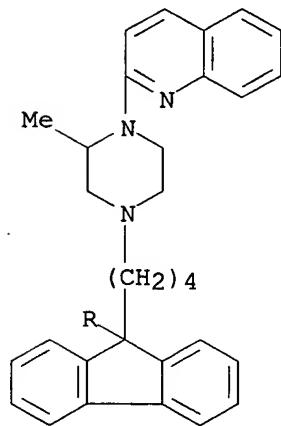


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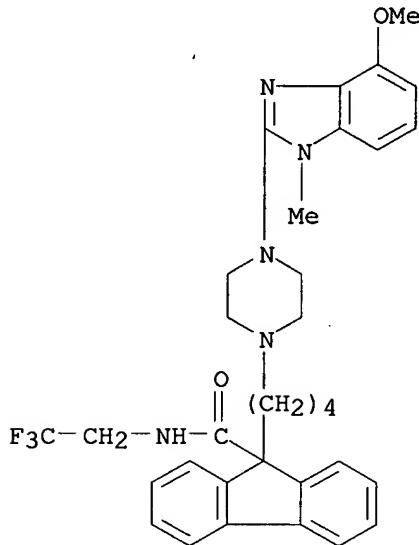
L2 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 348133-87-9 REGISTRY
CN 9H-Fluorene-9-carboxamide, 9-[4-[3-methyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C34 H35 F3 N4 O
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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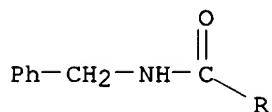
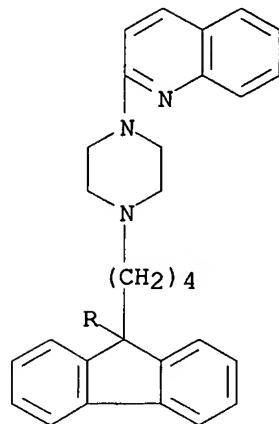
L2 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 348133-53-9 REGISTRY
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-methoxy-1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C33 H36 F3 N5 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 348133-30-2 REGISTRY
CN 9H-Fluorene-9-carboxamide, N-(phenylmethyl)-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C38 H38 N4 O
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



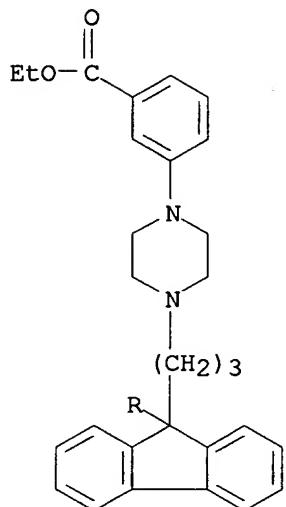
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

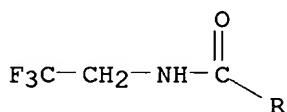
10/089024

L2 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 301668-32-6 REGISTRY
CN Benzoic acid, 3-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H34 F3 N3 O3
SR CA
LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 2-A



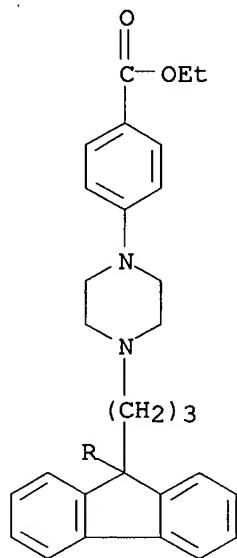
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

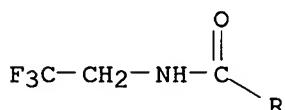
10/089024

L2 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 301668-00-8 REGISTRY
CN Benzoic acid, 4-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H34 F3 N3 O3
SR CA
LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 2-A



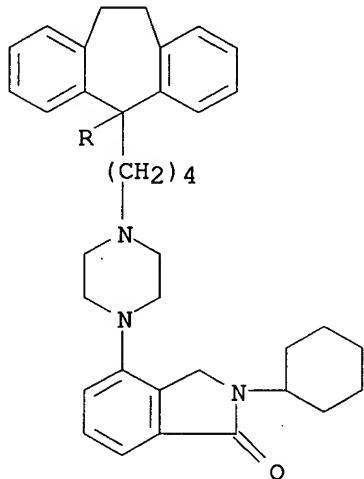
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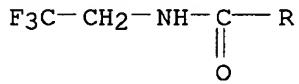
10/089024

L2 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2003 ACS on STN
RN 301667-21-0 REGISTRY
CN 5H-Dibenzo[a,d]cycloheptene-5-carboxamide, 5-[4-[4-(2-cyclohexyl-2,3-dihydro-1-oxo-1H-isoindol-4-yl)-1-piperazinyl]butyl]-10,11-dihydro-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C40 H47 F3 N4 O2
SR CA
LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

10/089024

=> s 11 sss full
FULL SEARCH INITIATED 17:45:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 28971 TO ITERATE

100.0% PROCESSED 28971 ITERATIONS 247 ANSWERS
SEARCH TIME: 00.00.01

L3 247 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
163.67 163.88

FILE 'CAPLUS' ENTERED AT 17:45:32 ON 02 OCT 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 2 Oct 2003 VOL 139 ISS 14
FILE LAST UPDATED: 1 Oct 2003 (20031001/ED)

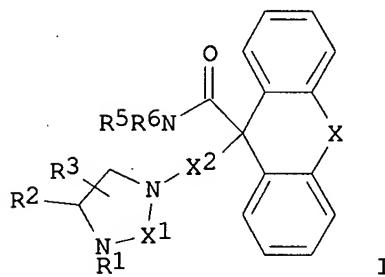
This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 4 L3

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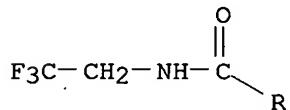
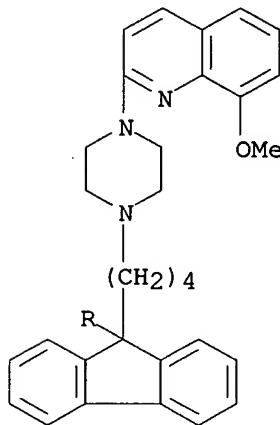
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2001:489378 CAPLUS
 DN 135:92650
 TI Preparation of 9-piperazinoalkyl-9H-fluorene-9-carboxamides as inhibitors
 of microsomal triglyceride transfer protein (MTP)
 IN Lehmann-Lintz, Thorsten; Heckel, Armin; Thomas, Leo; Mark, Michael
 PA Boehringer Ingelheim Pharma K.-G., Germany
 SO PCT Int. Appl., 122 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	EP 1255736	A2	20021113	EP 2000-991607	20001216
				R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	
	JP 2003521484	T2	20030715	JP 2001-549370	20001216
	US 2003166637	A1	20030904	US 2002-168486	20021009
PRAI	DE 1999-19963234	A	19991227		
	WO 2000-EP12843	W	20001216		
OS	MARPAT	135:92650			
GI					



AB Title compds. [I; R1 = (substituted) (polycyclic) aryl, heteroaryl; R2, R3 = H, alkyl; R5, R6 = H, (substituted) alkyl, cycloalkyl, Ph, alkoxy carbonylalkyl, carboxyalkyl, etc.; R5R6N = cycloalkylenimino; X = bond, O, CH₂, CH₂CH₂, (substituted) imino; X1 = (CH₂)_m; X2 = (CH₂)_n; m = 2,3; n = 1-5] were prep'd. as MTP inhibitors (no data). Thus, 9-(4-bromobutyl)-9H-fluoren-9-(2,2,2-trifluoroethyl)carboxamide (prepn. given) was stirred for 10 h at room temp. with 2-(piperazin-1-yl)benzothiazole, K₂CO₃ and H₂O in MeCN to give 60.4% 9-[4-(4-benzothiazol-

2-yl)-piperazin-1-ylbutyl]-9H-fluoren-9-(2,2,2-trifluoroethyl)carboxamide.
 IT 348133-66-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of piperazinoalkylfluorenecarboxamides as inhibitors of microsomal triglyceride transfer protein (MTP))
 RN 348133-66-4 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(8-methoxy-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



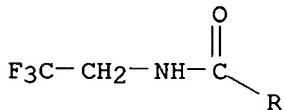
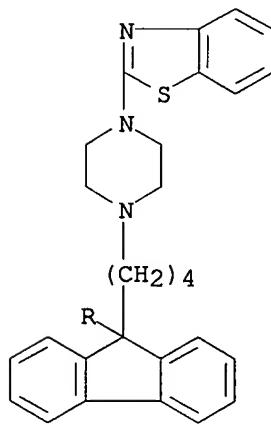
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348134-99-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of piperazinoalkylfluorenecarboxamides as inhibitors of microsomal triglyceride transfer protein (MTP))

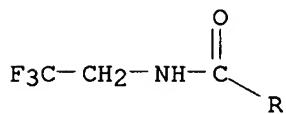
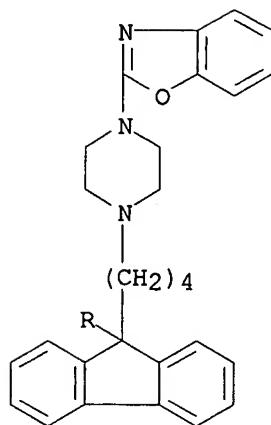
RN 348133-25-5 CAPLUS

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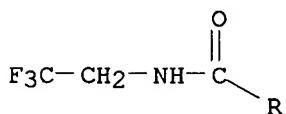
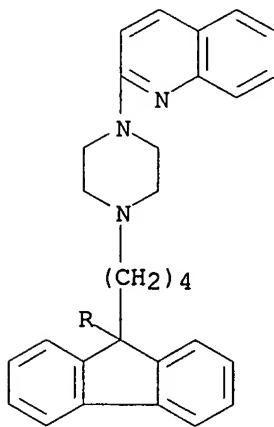
RN 348133-26-6 CAPLUS

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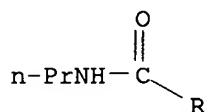
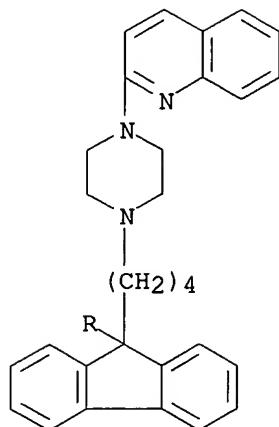
RN 348133-27-7 CAPLUS

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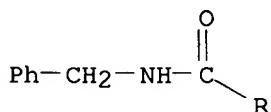
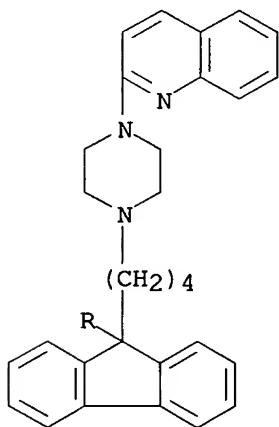
RN 348133-28-8 CAPLUS

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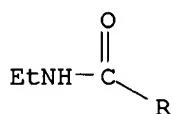
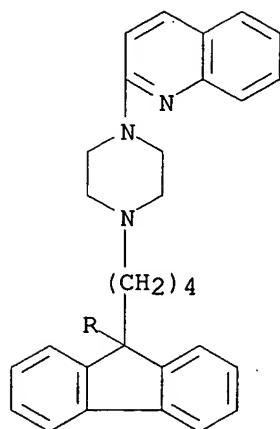
RN 348133-30-2 CAPLUS

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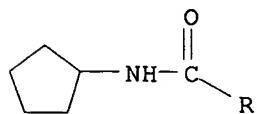
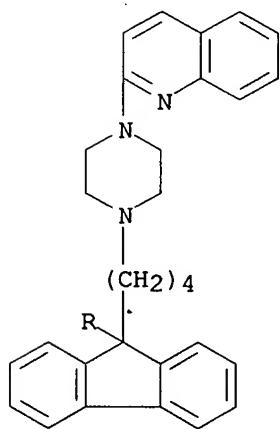
RN 348133-31-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-ethyl-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



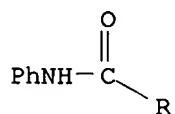
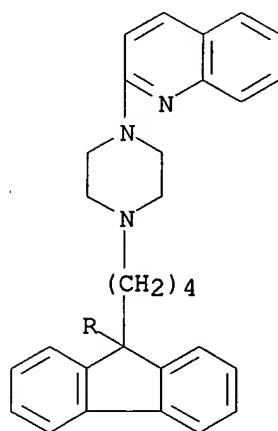
RN 348133-32-4 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-cyclopentyl-9-[4-[4-(2-quinolinyloxy)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

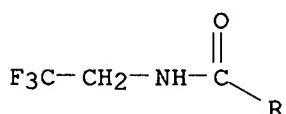
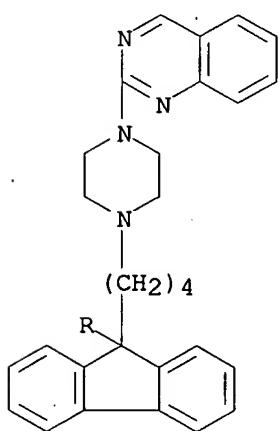


RN 348133-34-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-phenyl-9-[4-[4-(2-quinolinyloxy)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

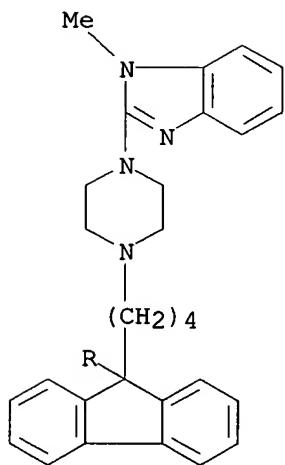


RN 348133-36-8 CAPLUS
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-quinazolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

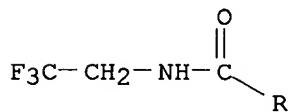


RN 348133-37-9 CAPLUS
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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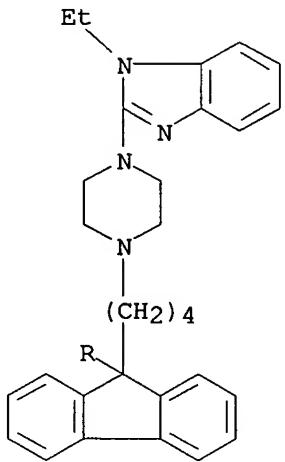


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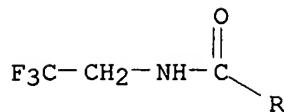


RN 348133-38-0 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1-ethyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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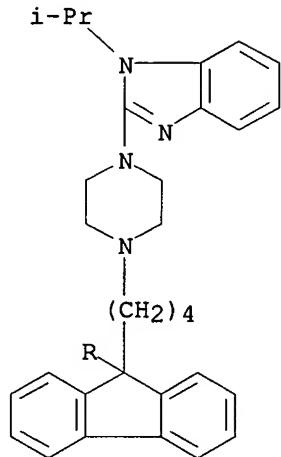
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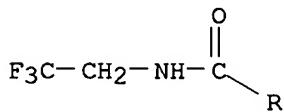
RN 348133-39-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[1-(1-methylethyl)-1H-benzimidazol-2-yl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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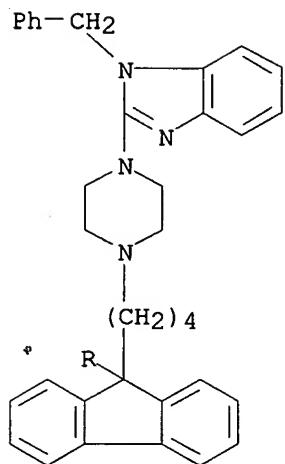
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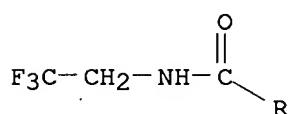
RN 348133-41-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[1-(phenylmethyl)-1H-benzimidazol-2-yl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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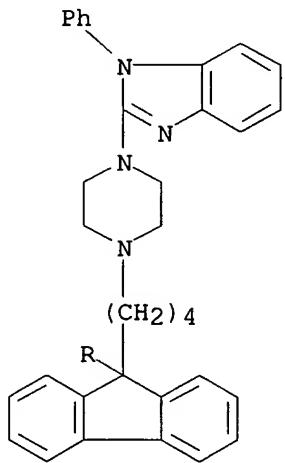
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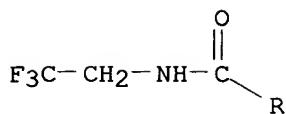


RN 348133-42-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1-phenyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

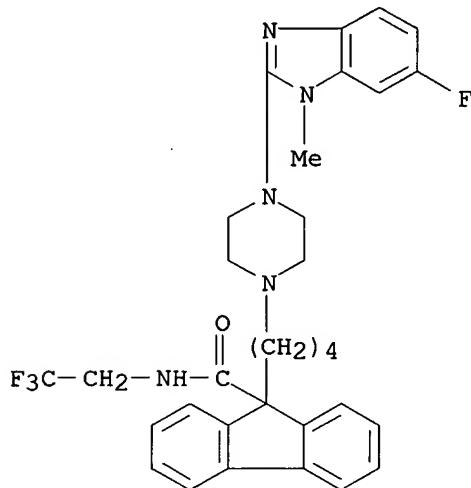
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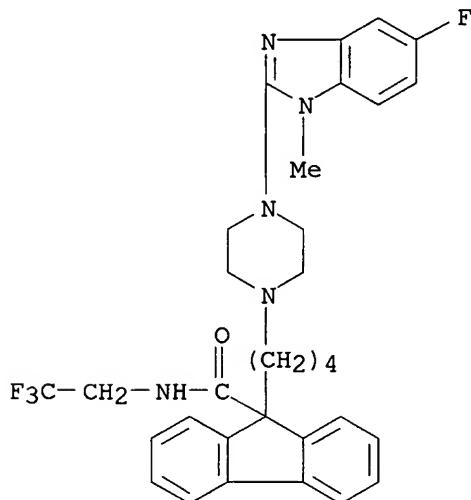
RN 348133-44-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(6-fluoro-1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



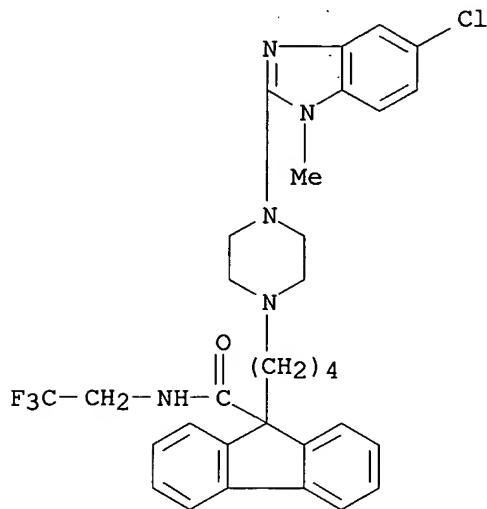
RN 348133-49-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(5-fluoro-1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



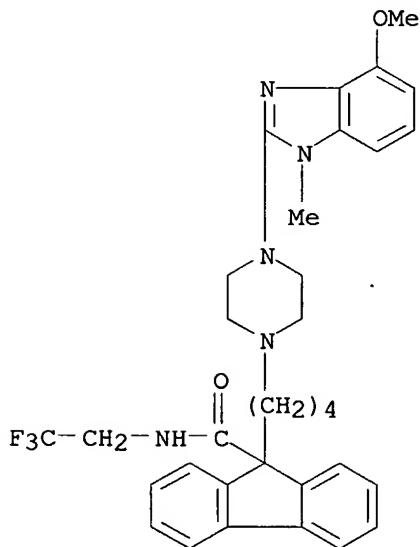
RN 348133-51-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(5-chloro-1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



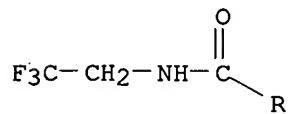
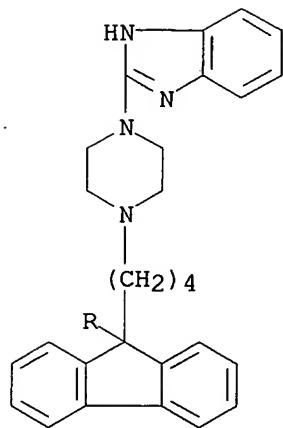
RN 348133-53-9 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-methoxy-1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



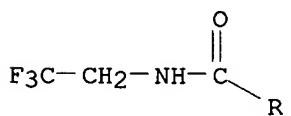
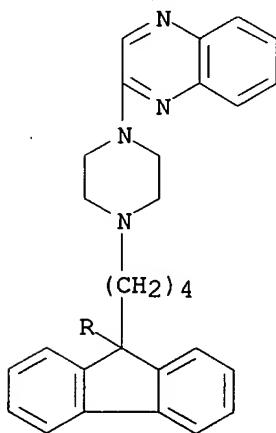
RN 348133-55-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



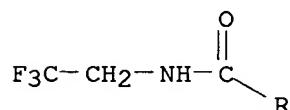
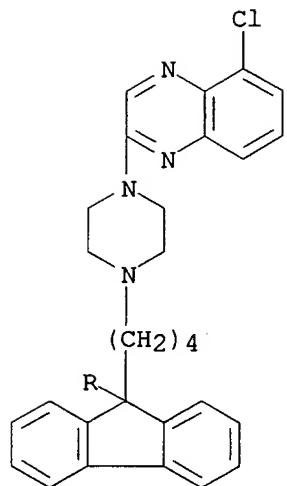
RN 348133-56-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-quinoxalinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

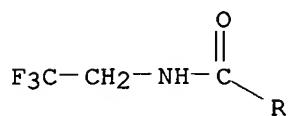
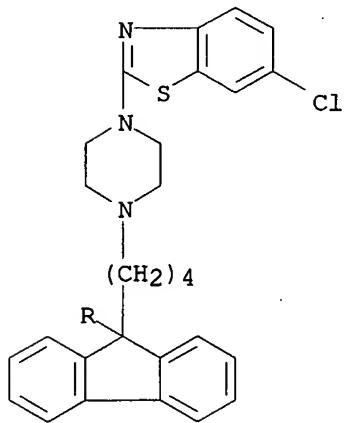


RN 348133-57-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(5-chloro-2-quinoxalinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348133-59-5 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(6-chloro-2-benzothiazolyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

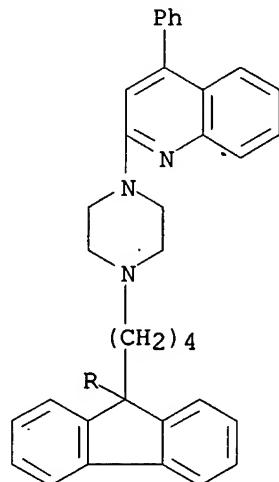


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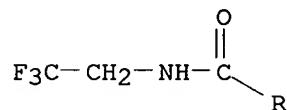
RN 348133-60-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-phenyl-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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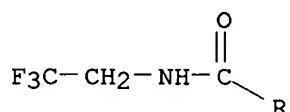
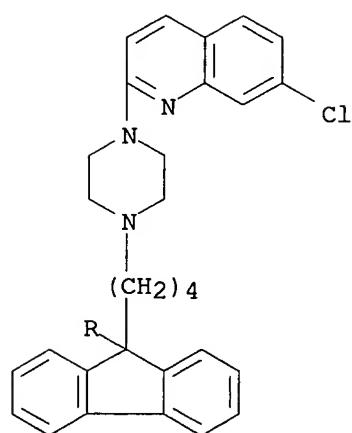


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RN 348133-61-9 CAPLUS

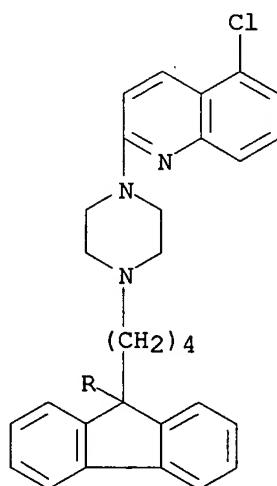
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(7-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



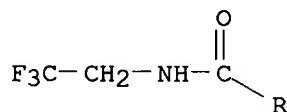
RN 348133-62-0 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(5-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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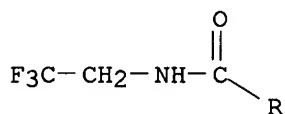
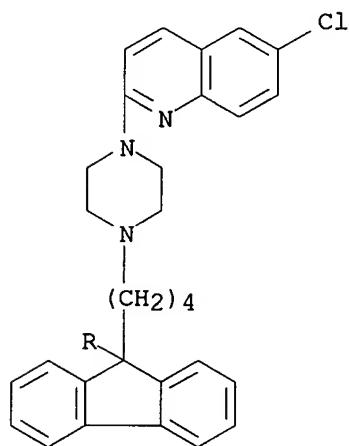


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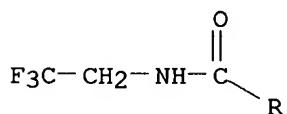
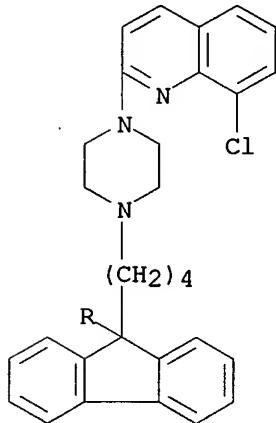
RN 348133-63-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(6-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



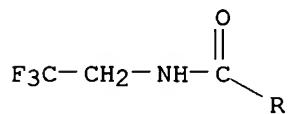
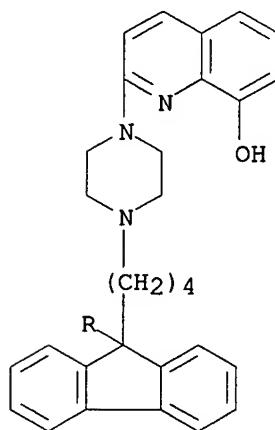
RN 348133-64-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(8-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



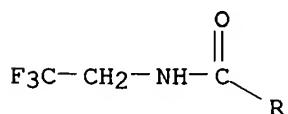
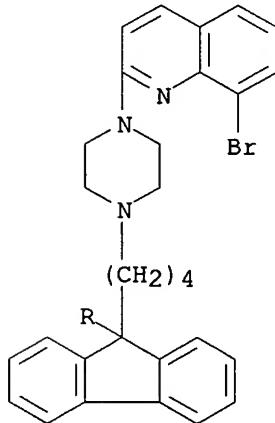
RN 348133-67-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(8-hydroxy-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



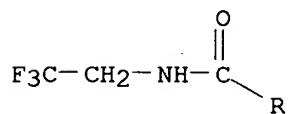
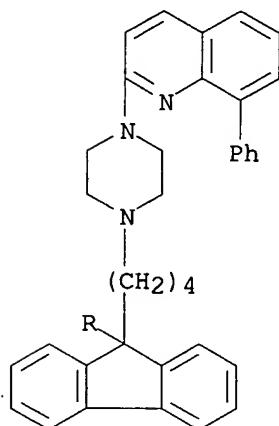
RN 348133-68-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(8-bromo-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



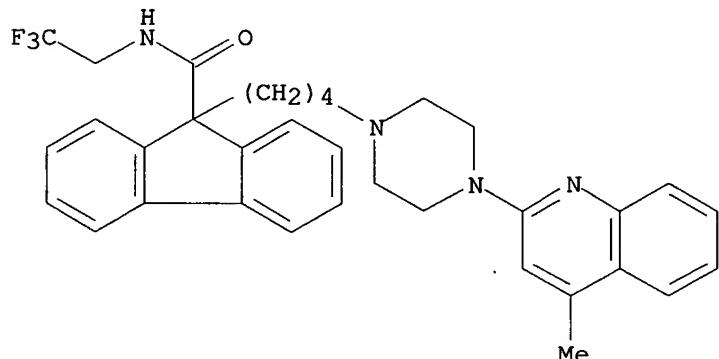
RN 348133-71-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(8-phenyl-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



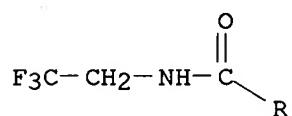
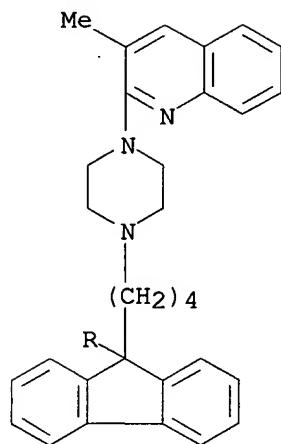
RN 348133-72-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-methyl-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



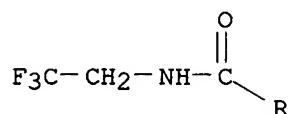
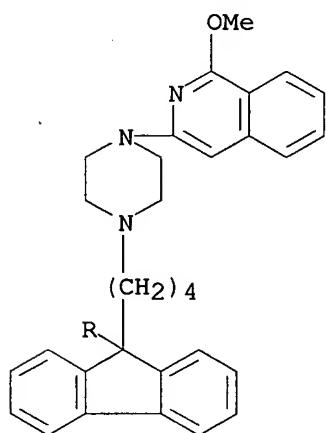
RN 348133-73-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(3-methyl-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



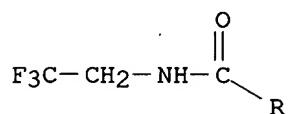
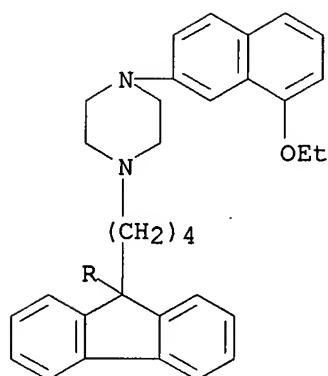
RN 348133-75-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1-methoxy-3-isoquinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348133-77-7 CAPLUS

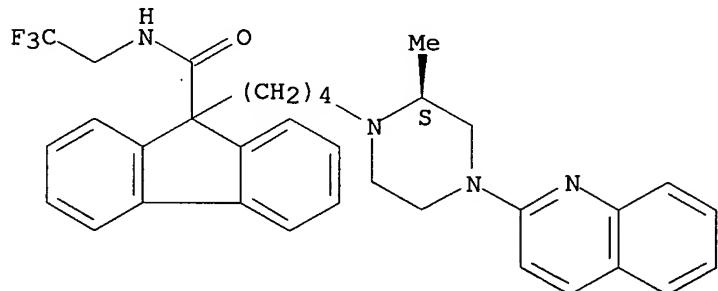
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(8-ethoxy-2-naphthalenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348133-82-4 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2S)-2-methyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

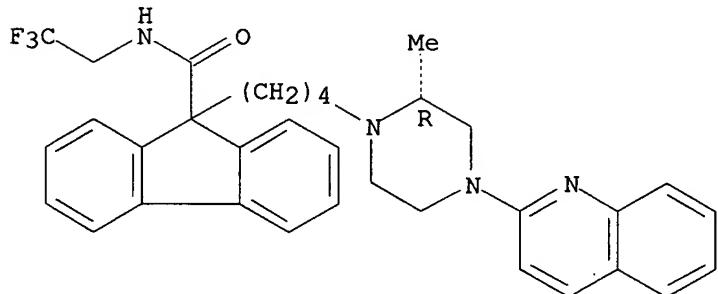
Absolute stereochemistry.



RN 348133-84-6 CAPLUS

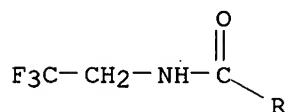
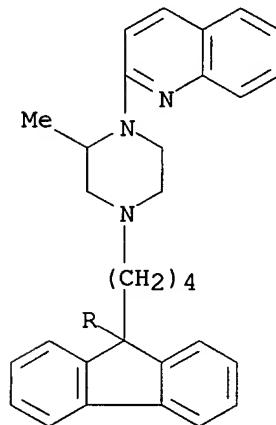
CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R)-2-methyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 348133-87-9 CAPLUS

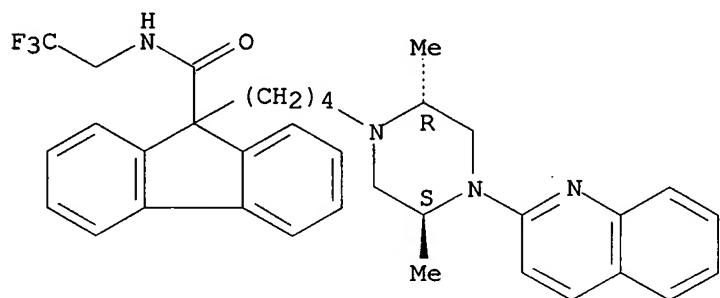
CN 9H-Fluorene-9-carboxamide, 9-[4-[3-methyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348133-88-0 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,5S)-2,5-dimethyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel- (9CI) (CA INDEX NAME)

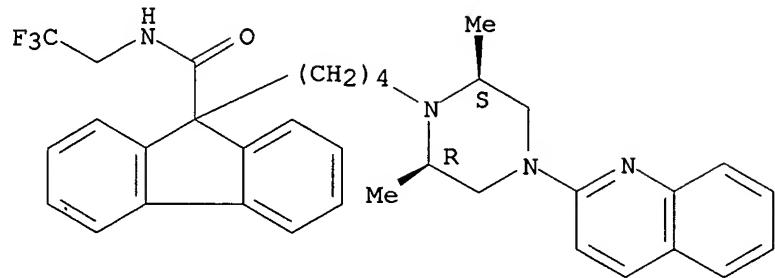
Relative stereochemistry.



RN 348133-90-4 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-2,6-dimethyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel- (9CI) (CA INDEX NAME)

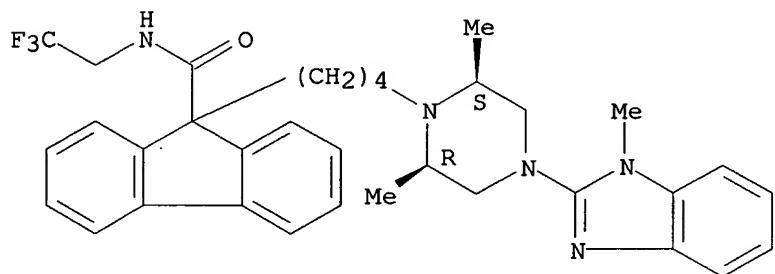
Relative stereochemistry.



RN 348133-92-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-2,6-dimethyl-4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel-(9CI) (CA INDEX NAME)

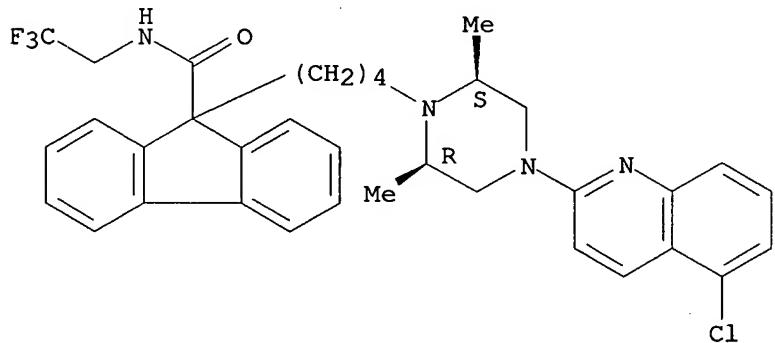
Relative stereochemistry.



RN 348133-94-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-4-(5-chloro-2-quinolinyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel-(9CI) (CA INDEX NAME)

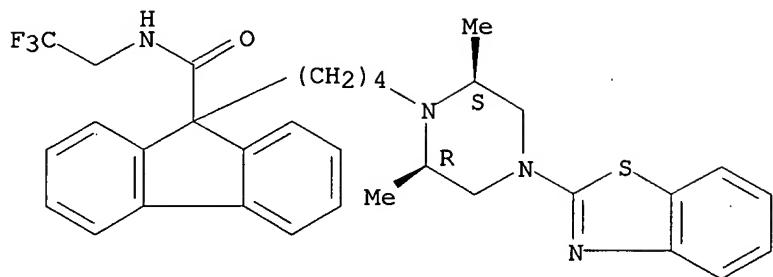
Relative stereochemistry.



RN 348133-96-0 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-4-(2-benzothiazolyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel-(9CI) (CA INDEX NAME)

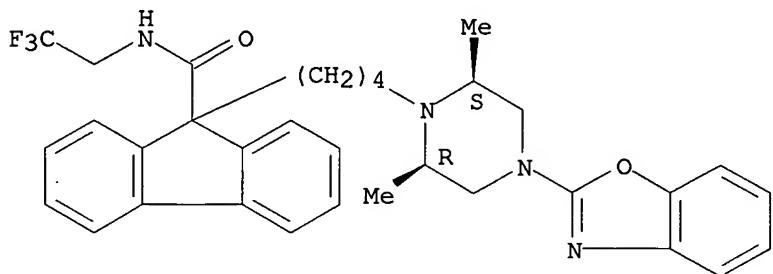
Relative stereochemistry.



RN 348133-98-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-4-(2-benzoxazolyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel- (9CI) (CA INDEX NAME)

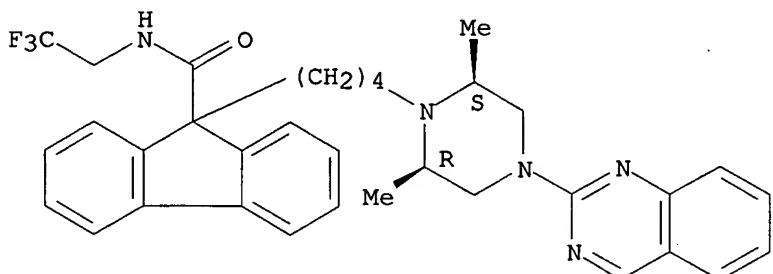
Relative stereochemistry.



RN 348134-00-9 CAPLUS

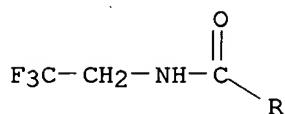
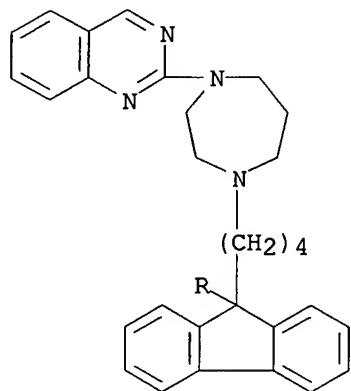
CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-2,6-dimethyl-4-(2-quinazolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



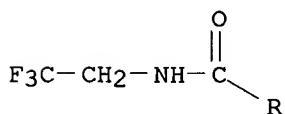
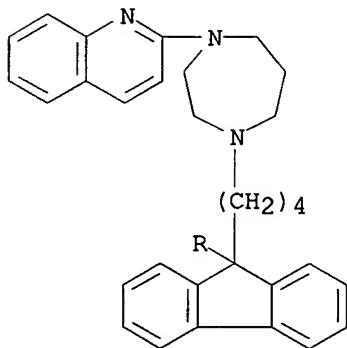
RN 348134-02-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-hexahydro-4-(2-quinazolinyl)-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



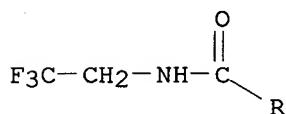
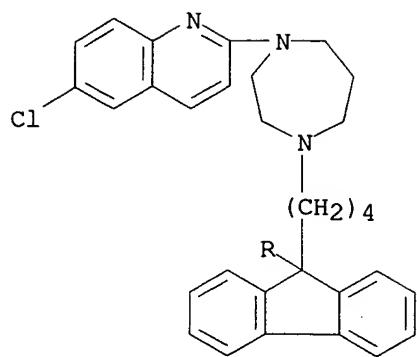
RN 348134-04-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[hexahydro-4-(2-quinoliny)-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



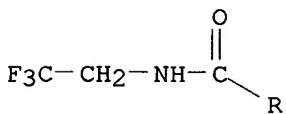
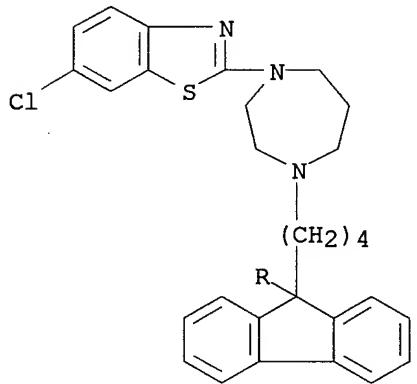
RN 348134-06-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[6-chloro-2-quinoliny]hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



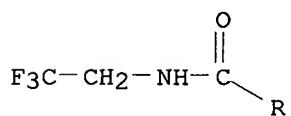
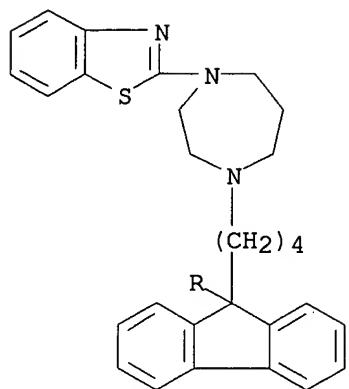
RN 348134-08-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(6-chloro-2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348134-10-1 CAPLUS

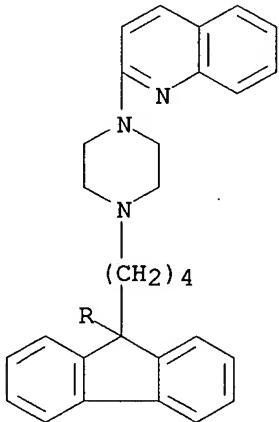
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



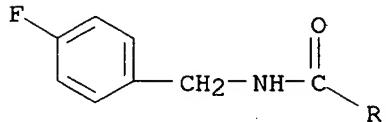
RN 348134-11-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(4-fluorophenyl)methyl]-9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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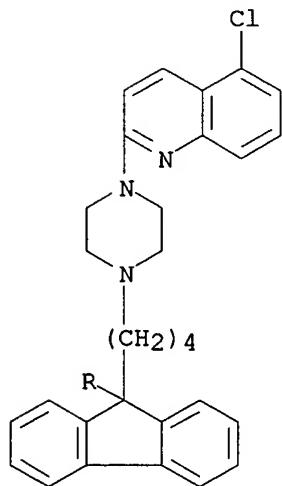


RN 348134-12-3 CAPLUS

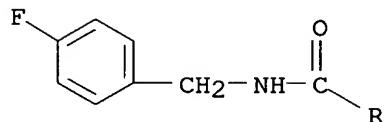
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(5-chloro-2-quinoliny)-1-

piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

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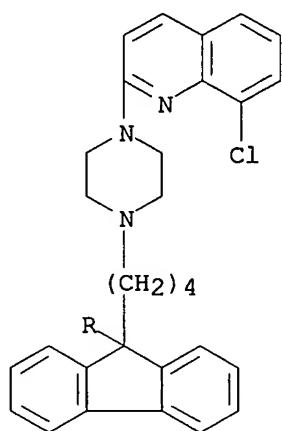
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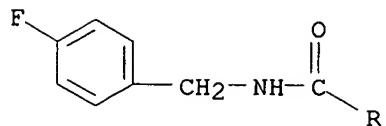
RN 348134-13-4 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[(4-[(4-chlorophenyl)methyl]-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

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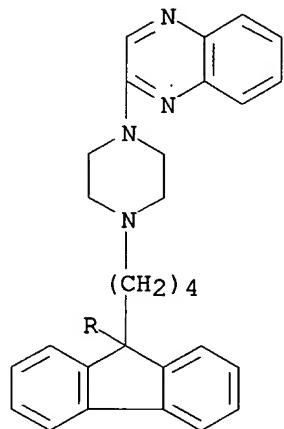
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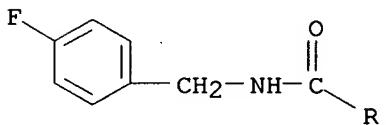
RN 348134-14-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(4-fluorophenyl)methyl]-9-[4-[4-(2-quinoxalinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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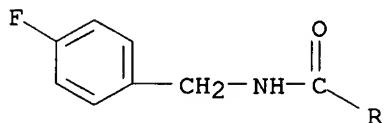
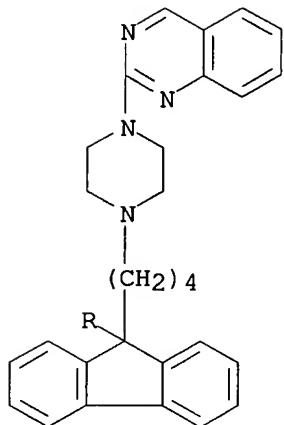


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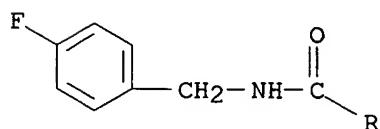
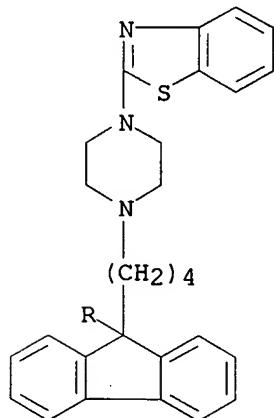
RN 348134-15-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(4-fluorophenyl)methyl]-9-[4-[4-(2-quinoxalinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



RN 348134-16-7 CAPLUS

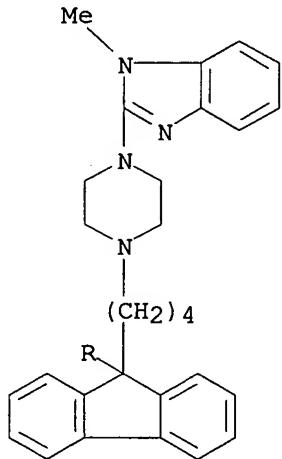
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



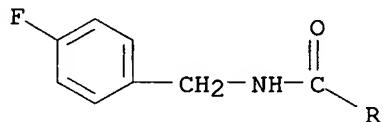
RN 348134-17-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(4-fluorophenyl)methyl]-9-[4-[4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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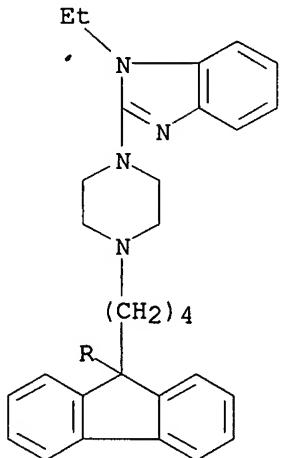
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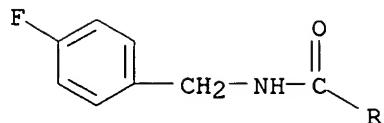


RN 348134-18-9 CAPLUS

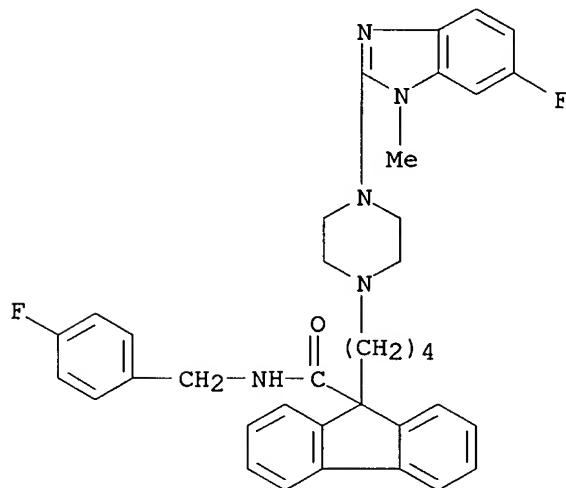
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1-ethyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

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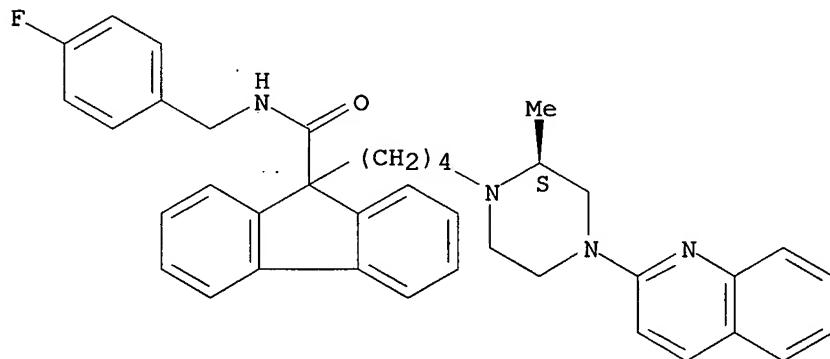


RN 348134-19-0 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(6-fluoro-1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 348134-20-3 CAPLUS
 CN 9H-Fluorene-9-carboxamide, N-[(4-fluorophenyl)methyl]-9-[4-[(2S)-2-methyl-4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

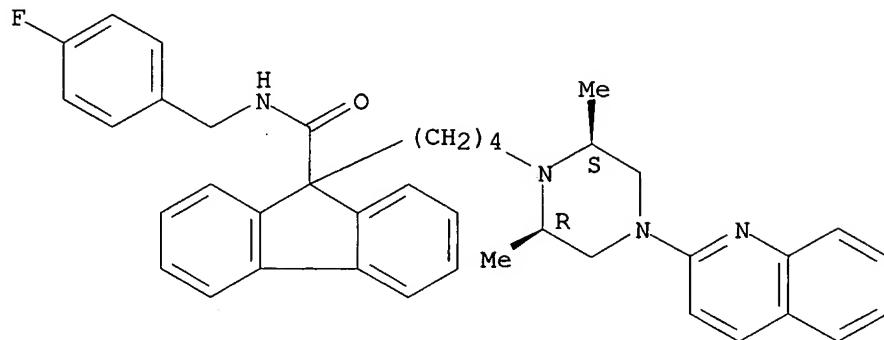
Absolute stereochemistry.



RN 348134-21-4 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-2,6-dimethyl-4-(2-quinolinyl)-1-

piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]-, rel- (9CI) (CA INDEX NAME)

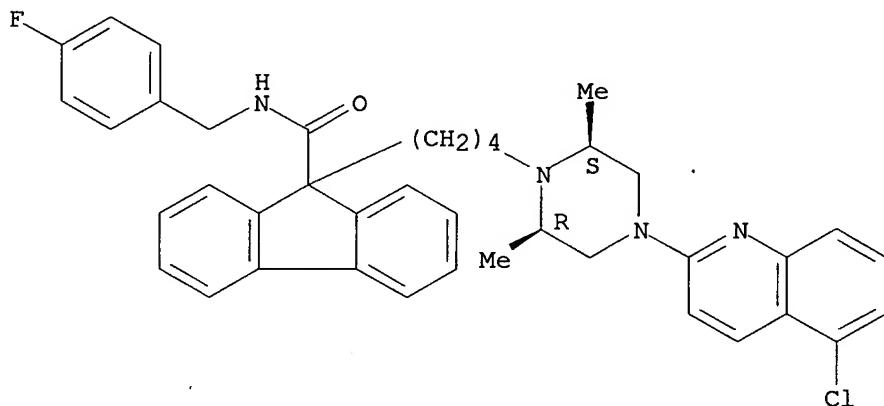
Relative stereochemistry.



RN 348134-22-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[(2R,6S)-4-(5-chloro-2-quinolinyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]-, rel- (9CI) (CA INDEX NAME)

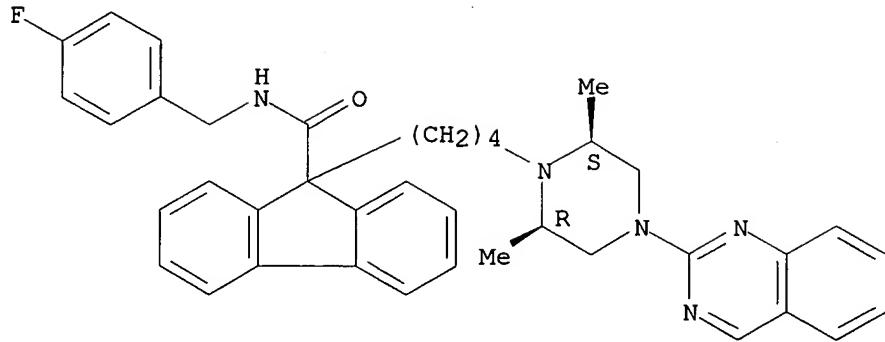
Relative stereochemistry.



RN 348134-23-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[(2R,6S)-2,6-dimethyl-4-(2-quinazolinyl)-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]-, rel- (9CI) (CA INDEX NAME)

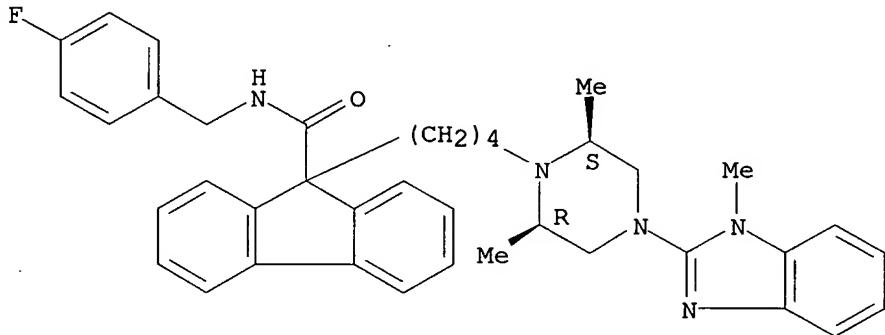
Relative stereochemistry.



RN 348134-24-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-2,6-dimethyl-4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]-, rel-(9CI) (CA INDEX NAME)

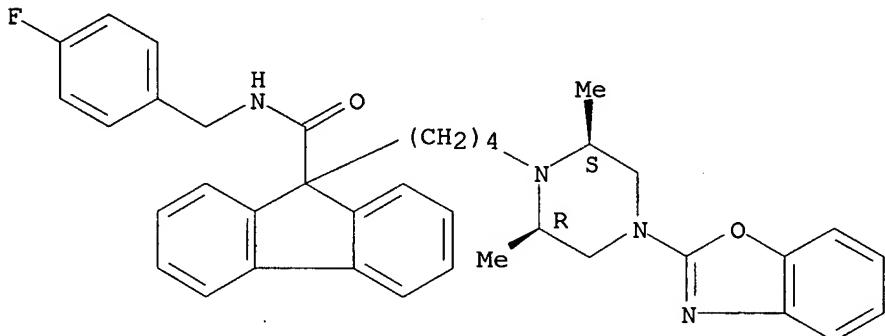
Relative stereochemistry.



RN 348134-25-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-4-(2-benzoxazolyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]-, rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

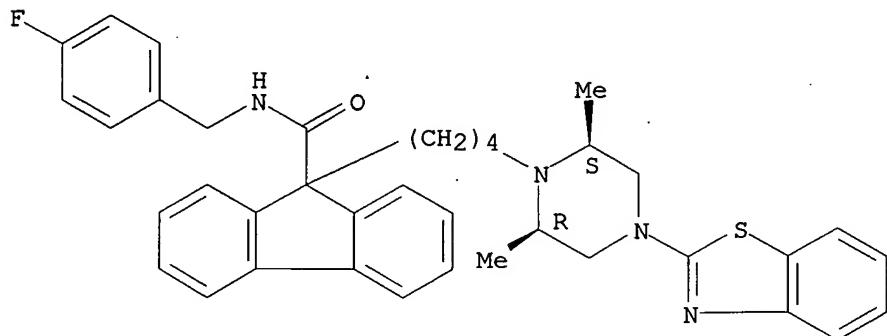


RN 348134-26-9 CAPLUS

10/089024

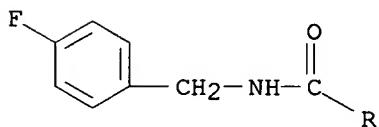
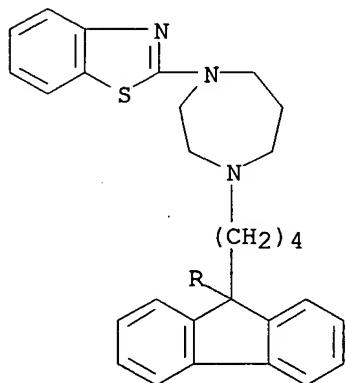
CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-4-(2-benzothiazolyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-[(4-fluorophenyl)methyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 348134-27-0 CAPLUS

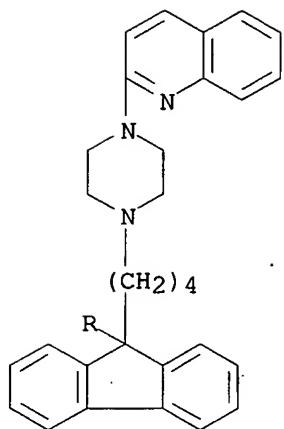
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



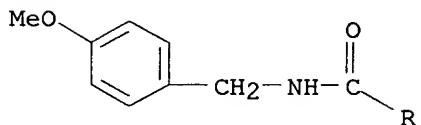
RN 348134-28-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(4-methoxyphenyl)methyl]-9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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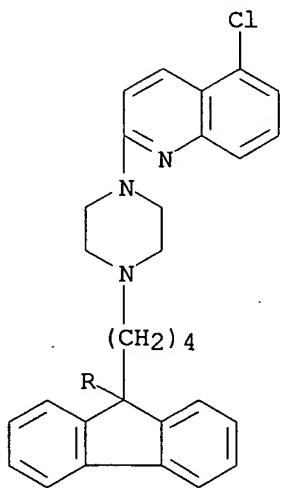


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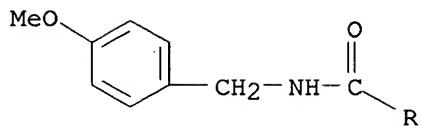


RN 348134-29-2 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(5-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

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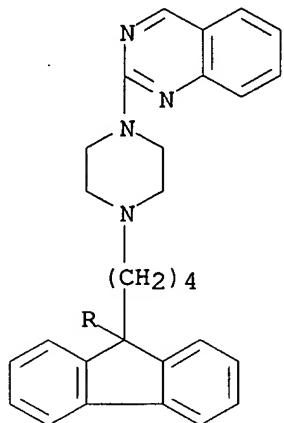
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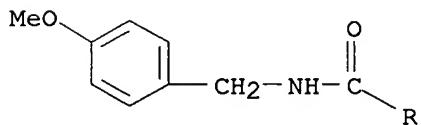
RN 348134-30-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(4-methoxyphenyl)methyl]-9-[4-[4-(2-quinazolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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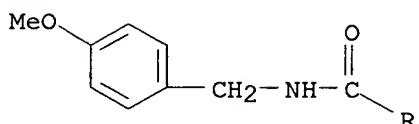
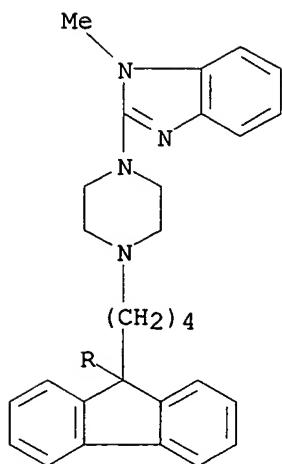


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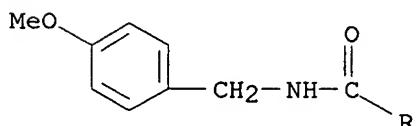
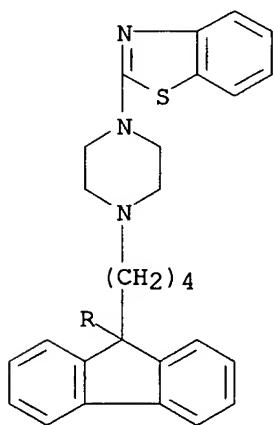
RN 348134-31-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(4-methoxyphenyl)methyl]-9-[4-[4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



RN 348134-32-7 CAPLUS

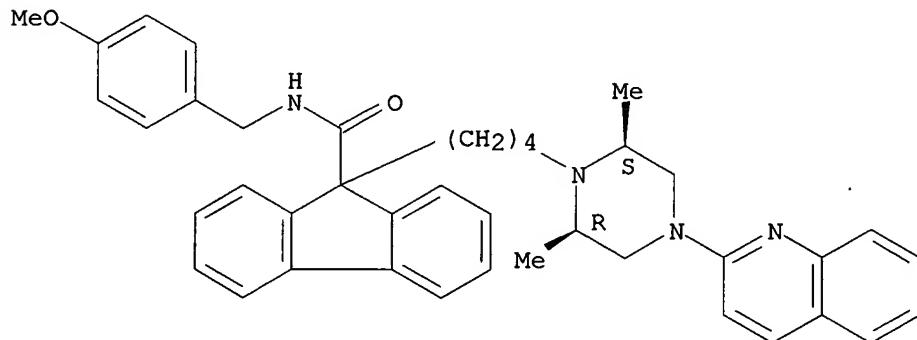
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)-1-piperazinyl]butyl]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 348134-33-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-2,6-dimethyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-[(4-methoxyphenyl)methyl]-, rel- (9CI) (CA INDEX NAME)

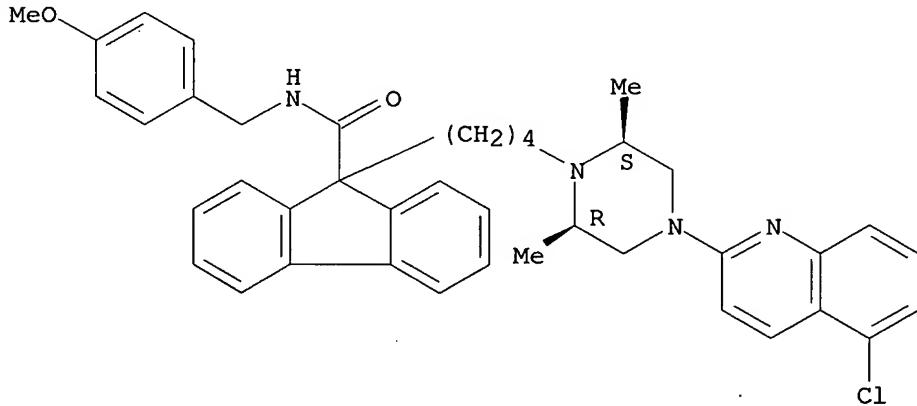
Relative stereochemistry.



RN 348134-34-9 CAPLUS

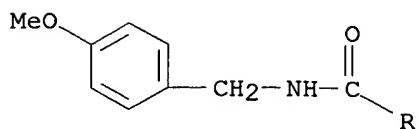
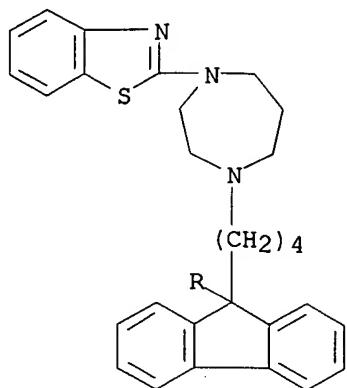
CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-4-(5-chloro-2-quinolinyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-[(4-methoxyphenyl)methyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 348134-35-0 CAPLUS

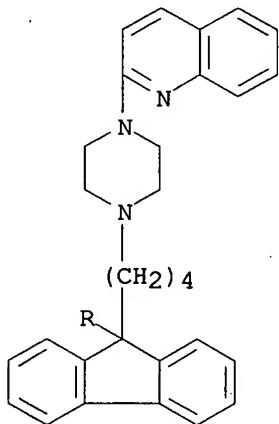
CN 9H-Fluorene-9-carboxamide, 9-[4-[(2R,6S)-4-(2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



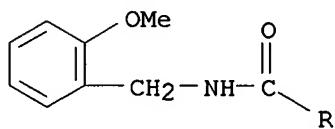
RN 348134-36-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(2-methoxyphenyl)methyl]-9-[4-[4-(2-quinoliny)l-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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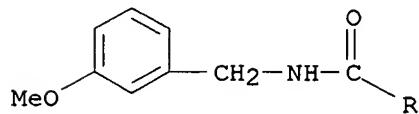
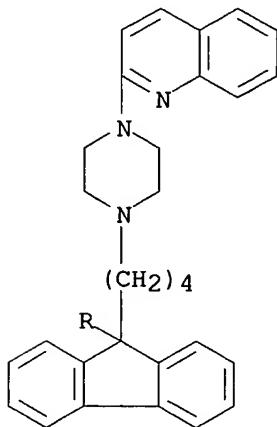


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RN 348134-38-3 CAPLUS

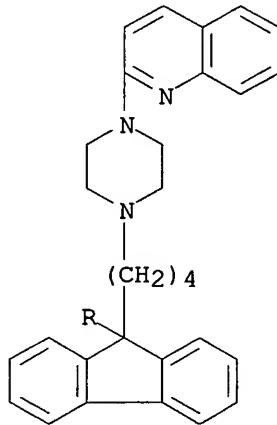
CN 9H-Fluorene-9-carboxamide, N-[(3-methoxyphenyl)methyl]-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



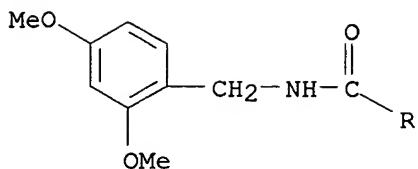
RN 348134-40-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(2,4-dimethoxyphenyl)methyl]-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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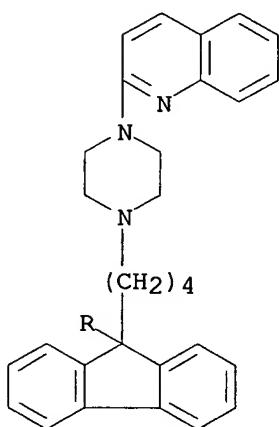
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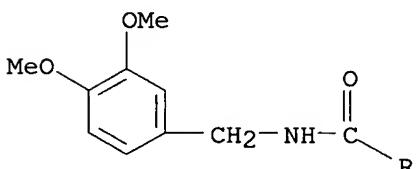
RN 348134-42-9 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(3,4-dimethoxyphenyl)methyl]-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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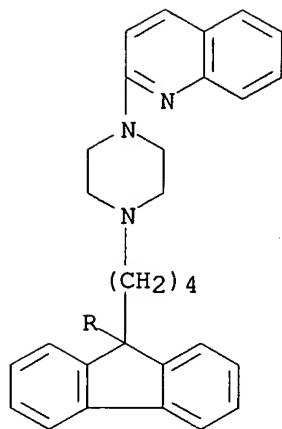
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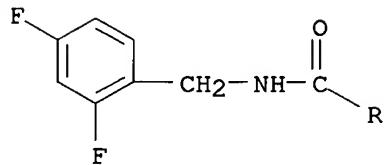
RN 348134-44-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(2,4-difluorophenyl)methyl]-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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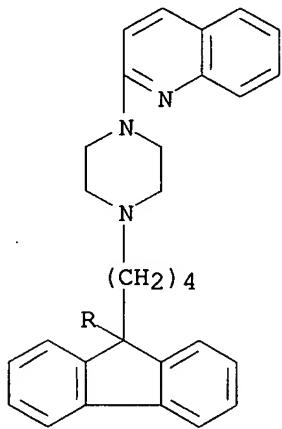
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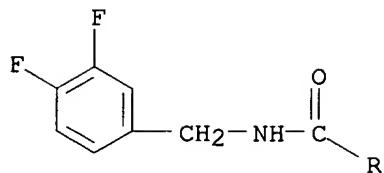


RN 348134-46-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-[(3,4-difluorophenyl)methyl]-9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

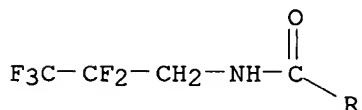
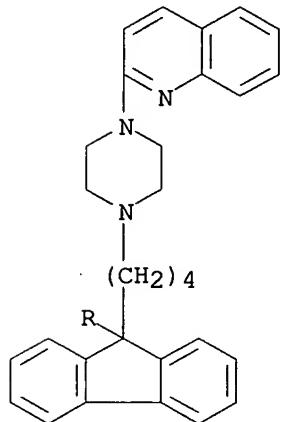
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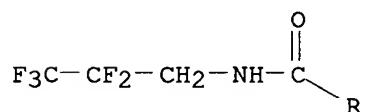
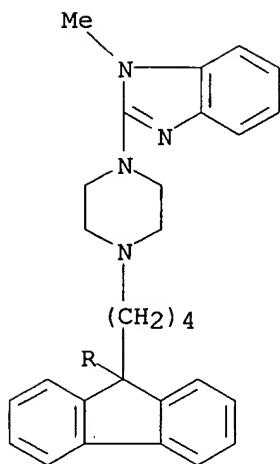
RN 348134-48-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-(2,2,3,3,3-pentafluoropropyl)-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



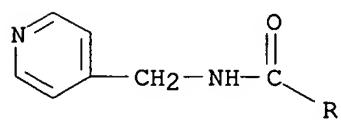
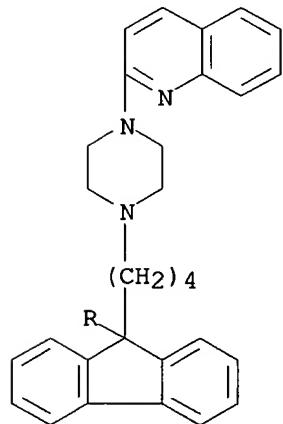
RN 348134-50-9 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,3,3,3-pentafluoropropyl)- (9CI) (CA INDEX NAME)



RN 348134-51-0 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-(4-pyridinylmethyl)-9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

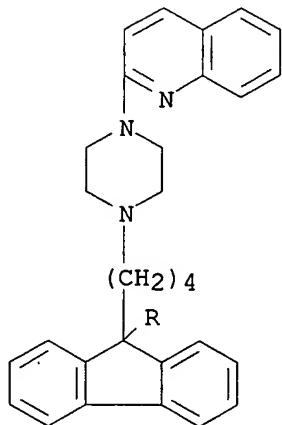


10/089024

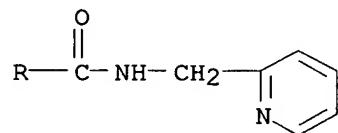
RN 348134-53-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-(2-pyridinylmethyl)-9-[4-[4-(2-quinoliny1)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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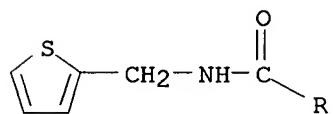
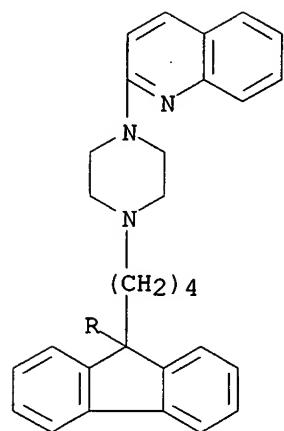


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RN 348134-55-4 CAPLUS

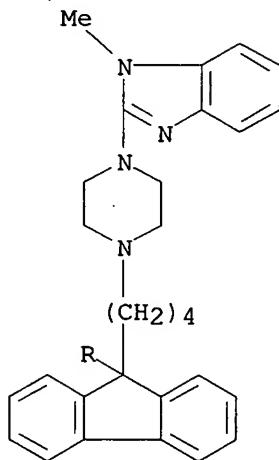
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-quinoliny1)-1-piperazinyl]butyl]-N-(2-thienylmethyl)- (9CI) (CA INDEX NAME)



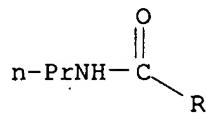
RN 348134-57-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-propyl- (9CI) (CA INDEX NAME)

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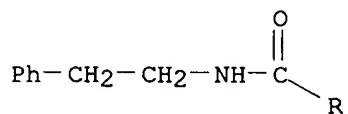
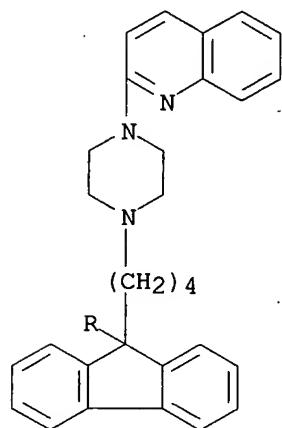


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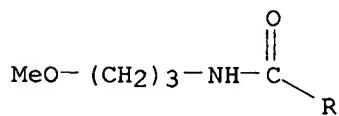
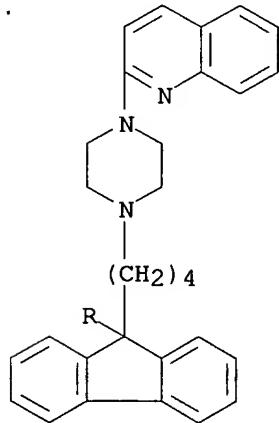
RN 348134-58-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-(2-phenylethyl)-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



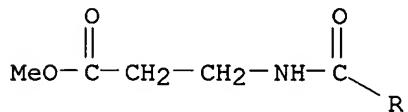
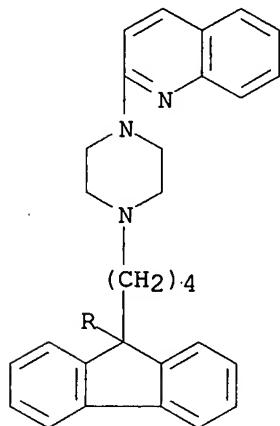
RN 348134-60-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-(3-methoxypropyl)-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



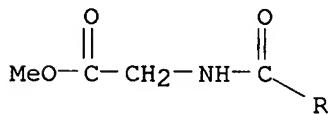
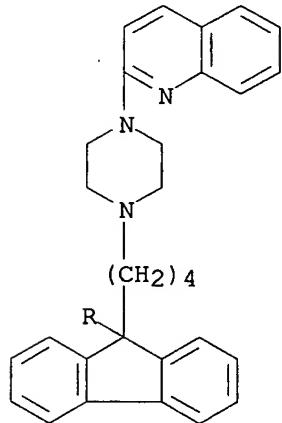
RN 348134-62-3 CAPLUS

CN *beta*-Alanine, N-[(9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]-9H-fluoren-9-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



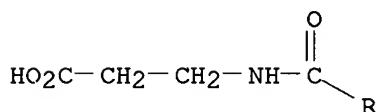
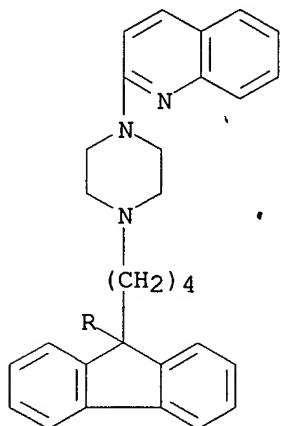
RN 348134-64-5 CAPLUS

CN Glycine, N-[(9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]-9H-fluoren-9-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

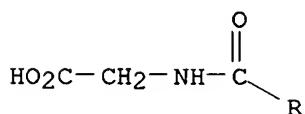
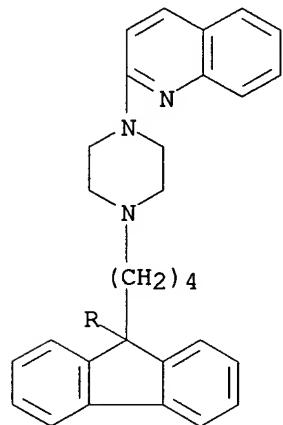


10/089024

RN 348134-66-7 CAPLUS
CN *beta*-Alanine, N-[[9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]-9H-fluoren-9-yl]carbonyl]- (9CI) (CA INDEX NAME)



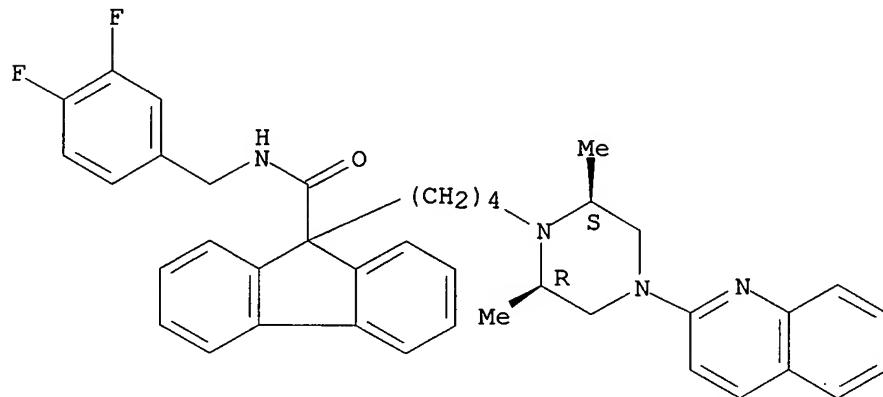
RN 348134-67-8 CAPLUS
CN Glycine, N-[[9-[4-[4-(2-quinoliny)-1-piperazinyl]butyl]-9H-fluoren-9-yl]carbonyl]- (9CI) (CA INDEX NAME)



RN 348134-68-9 CAPLUS

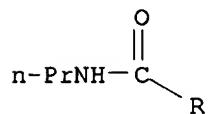
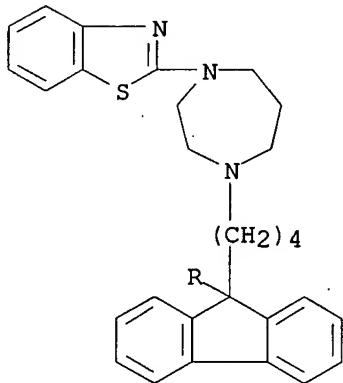
CN 9H-Fluorene-9-carboxamide, N-[(3,4-difluorophenyl)methyl]-9-[4-[(2R,6S)-2,6-dimethyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



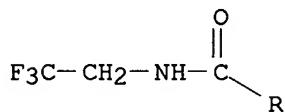
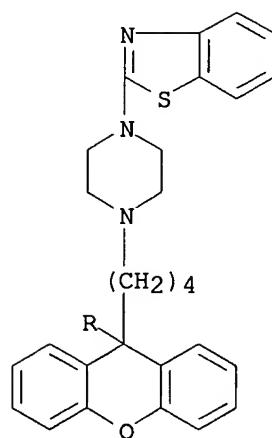
RN 348134-69-0 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-propyl- (9CI) (CA INDEX NAME)



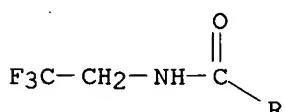
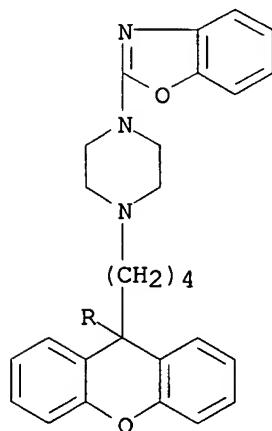
RN 348134-70-3 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



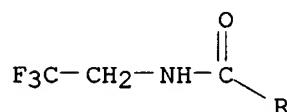
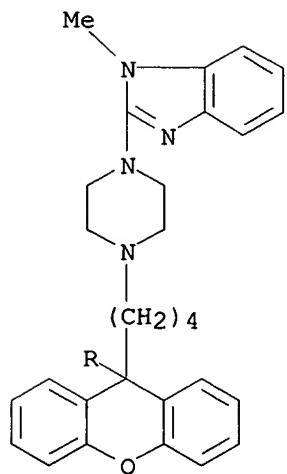
RN 348134-73-6 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(2-benzoxazolyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



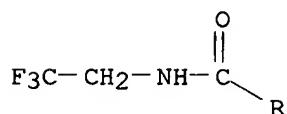
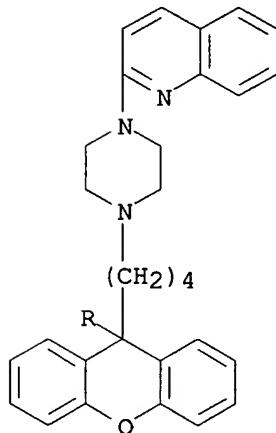
RN 348134-74-7 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(1-methyl-1H-benzimidazol-2-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348134-75-8 CAPLUS

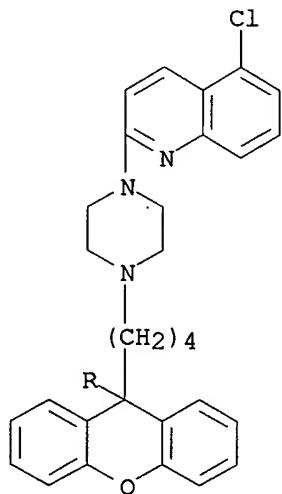
CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(2-quinoliny1)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



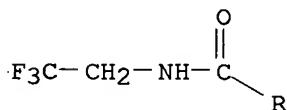
RN 348134-76-9 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(5-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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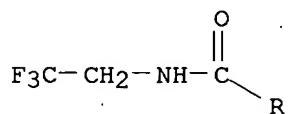
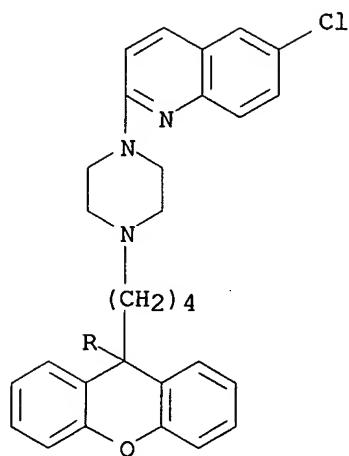


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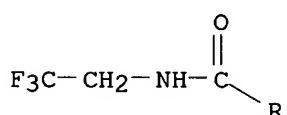
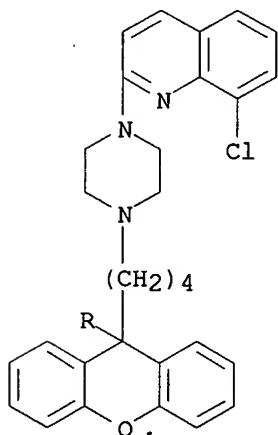
RN 348134-77-0 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(6-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



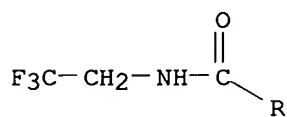
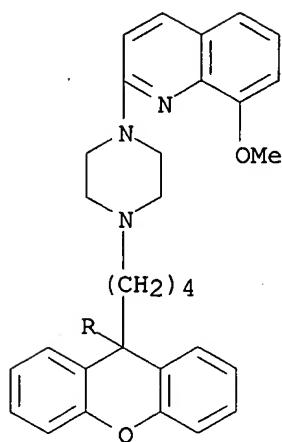
RN 348134-78-1 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(8-chloro-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



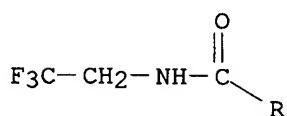
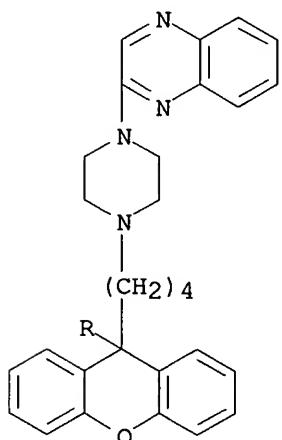
RN 348134-79-2 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(8-methoxy-2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348134-80-5 CAPLUS

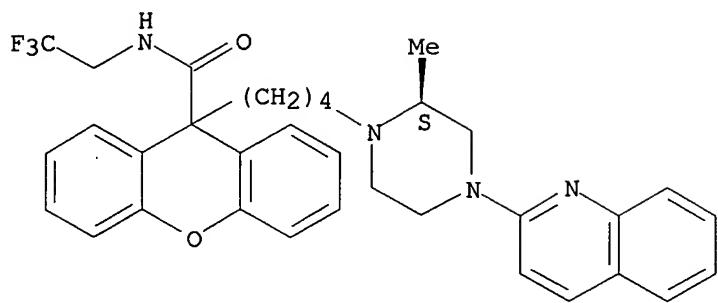
CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(2-quinoxaliny1)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348134-81-6 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[(2S)-2-methyl-4-(2-quinoliny1)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

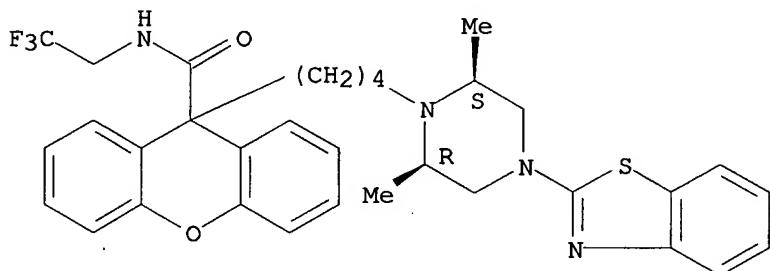
Absolute stereochemistry.



RN 348134-82-7 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[(2R,6S)-4-(2-benzothiazolyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel- (9CI) (CA INDEX NAME)

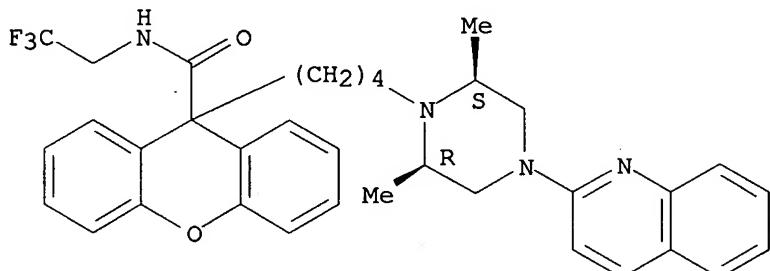
Relative stereochemistry.



RN 348134-83-8 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[(2R,6S)-2,6-dimethyl-4-(2-quinolinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel- (9CI) (CA INDEX NAME)

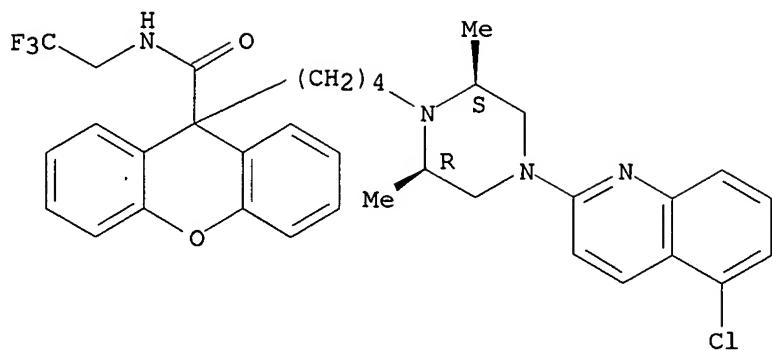
Relative stereochemistry.



RN 348134-84-9 CAPLUS

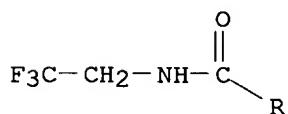
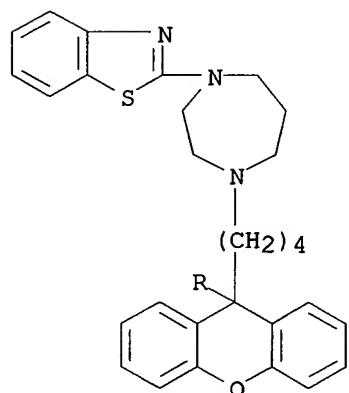
CN 9H-Xanthene-9-carboxamide, 9-[4-[(2R,6S)-4-(5-chloro-2-quinolinyl)-2,6-dimethyl-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



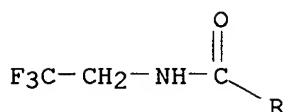
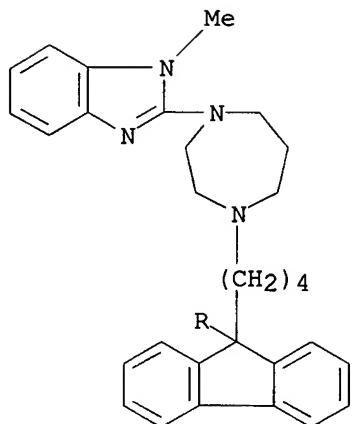
RN 348134-85-0 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(2-benzothiazolyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



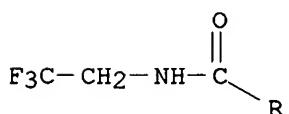
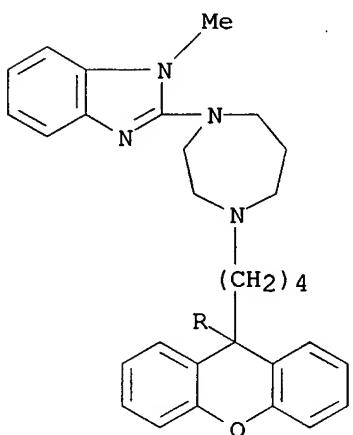
RN 348134-86-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[hexahydro-4-(1-methyl-1H-benzimidazol-2-yl)-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



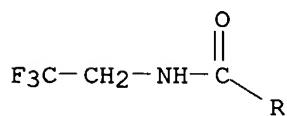
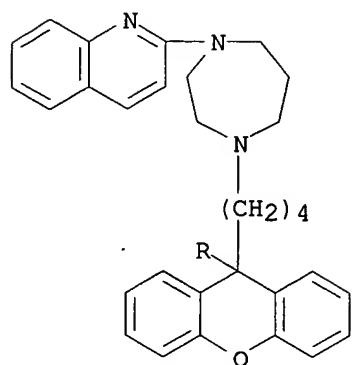
RN 348134-88-3 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[hexahydro-4-(1-methyl-1H-benzimidazol-2-yl)-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



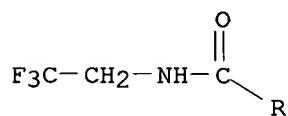
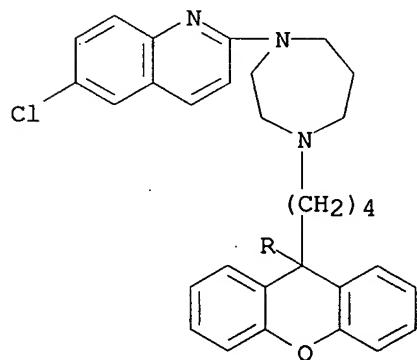
RN 348134-89-4 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[hexahydro-4-(2-quinolinyl)-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



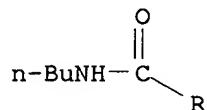
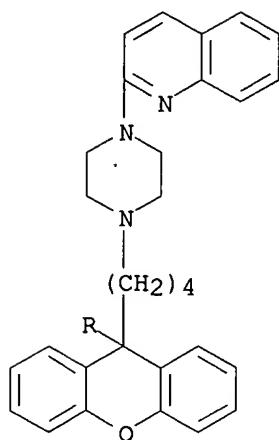
RN 348134-90-7 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(6-chloro-2-quinolinyl)hexahydro-1H-1,4-diazepin-1-yl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348134-91-8 CAPLUS

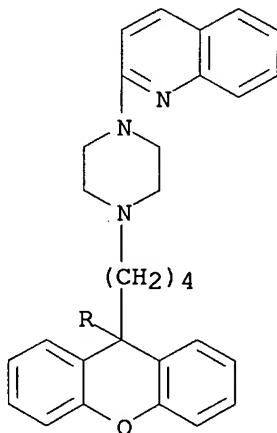
CN 9H-Xanthene-9-carboxamide, N-butyl-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



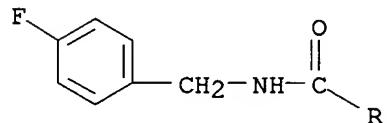
RN 348134-93-0 CAPLUS

CN 9H-Xanthene-9-carboxamide, N-[(4-fluorophenyl)methyl]-9-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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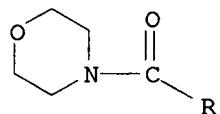
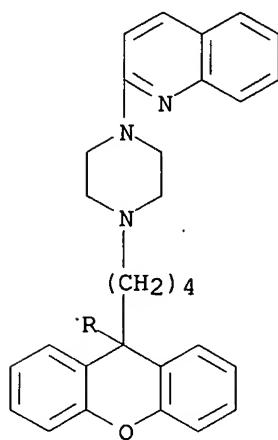


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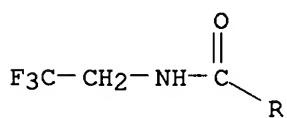
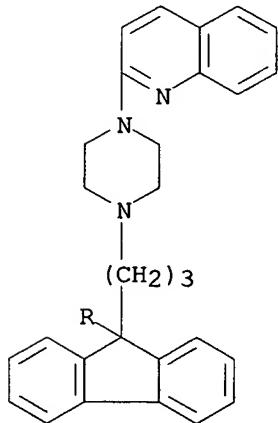


10/089024

RN 348134-95-2 CAPLUS
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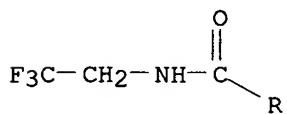
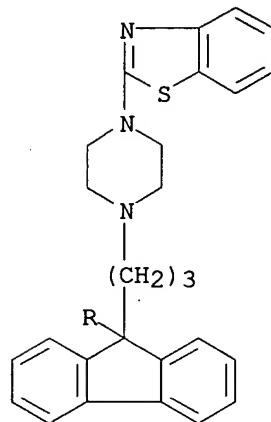
RN 348134-97-4 CAPLUS
CN 9H-Fluorene-9-carboxamide, 9-[3-[4-(2-quinolinyl)-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



10/089024

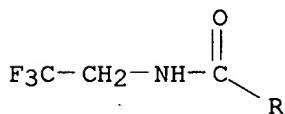
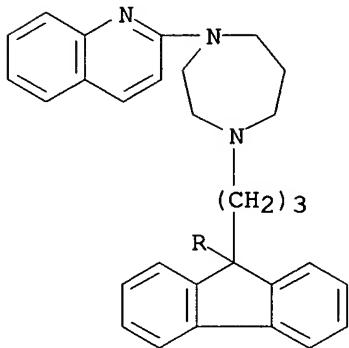
RN 348134-98-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[4-(2-benzothiazolyl)-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 348134-99-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[hexahydro-4-(2-quinolinyl)-1H-1,4-diazepin-1-yl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



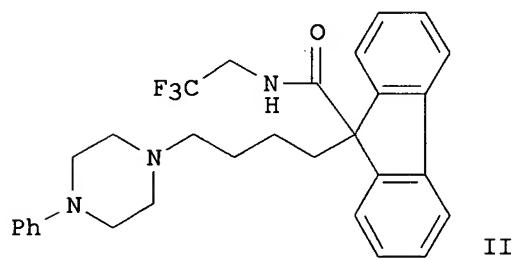
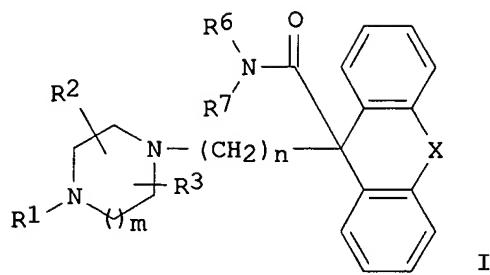
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 DN 134:266313
 TI Preparation and use of substituted piperazine derivatives as MTP
 inhibitors
 IN Lehmann-Lintz, Thorsten; Heckel, Armin; Thomas, Leo; Mark, Michael
 PA Boehringer Ingelheim Pharma K.-G., Germany
 SO PCT Int. Appl., 70 pp.
 CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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OS	MARPAT 134:266313				
GI					



AB Compds. of formula I [wherein; n is 1-5; m is 1 or 2; X is a bond, O, CH₂(CH₂), imino or N-alkyl-imino; R₁ is (substituted) aryl or heteroaryl; R₂, R₃ are hydrogen or alkyl; R₆, R₇ are H, (fluoro)alkyl, cycloalkyl, Ph, heteroaryl, etc., or NR₆R₇ may form a 3-7 membered ring.]. Thirty eight examples of I are prep'd. (e.g. II). Compd. II was prep'd. by alkylation of 9-fluorene carboxylic acid with 1,4-dibromobutane. The alkylated intermediate was converted to its acyl chloride deriv., and treated with 2,2,2-trifluoroethylamine to provide pivotal intermediate, 9-(4-bromobutyl)-9H-fluorene-9-(2,2,2-trifluoroethylcarboxamide). Alkylation of 1-phenylpiperazine with this intermediate yields II. Three solid oral dosage formulations of compds. I are disclosed. Compds. of formula I are said to be inhibitors of the microsomal triglyceride-transfer protein (MTP). Use of compds. I to prep. drugs which lower plasma levels of atherogenic lipoproteins is claimed.

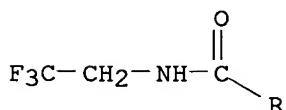
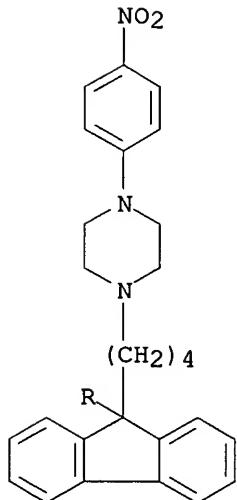
IT 331767-31-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. and use of substituted piperazine derivs.)

RN 331767-31-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-nitrophenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

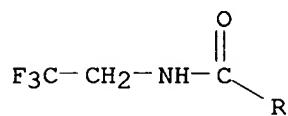
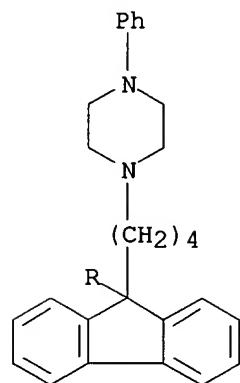


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 331767-52-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. and use of substituted piperazine derivs.)

RN 331767-10-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-(4-phenyl-1-piperazinyl)butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 331767-12-5 CAPLUS

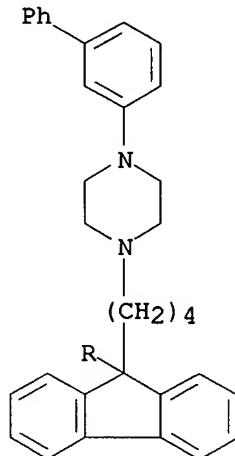
CN 9H-Fluorene-9-carboxamide, 9-[4-(4-[1,1'-biphenyl]-3-yl-1-piperazinyl)butyl]-N-(2,2,2-trifluoroethyl)-, compd. with benzene (1:1) (9CI) (CA INDEX NAME)

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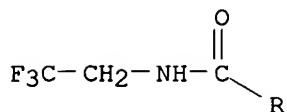
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CMF C36 H36 F3 N3 O

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CM 2

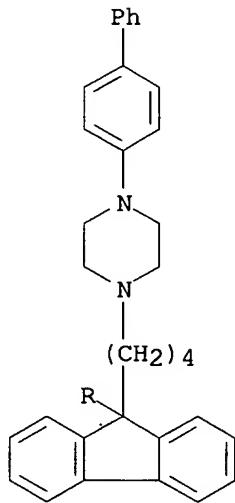
CRN 71-43-2
CMF C6 H6

RN 331767-14-7 CAPLUS
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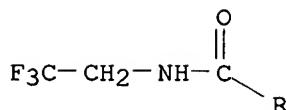
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CMF C36 H36 F3 N3 O

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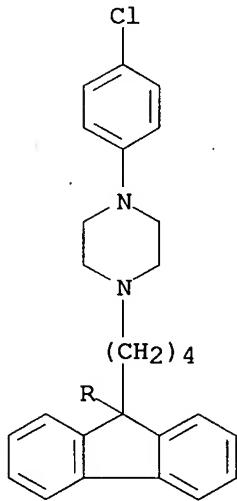


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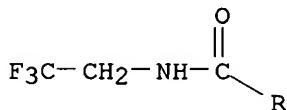
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RN 331767-15-8 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-chlorophenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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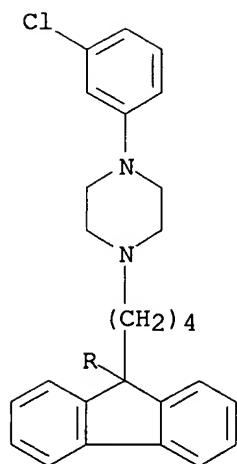


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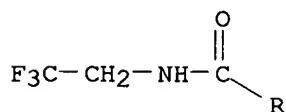


RN 331767-16-9 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(3-chlorophenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



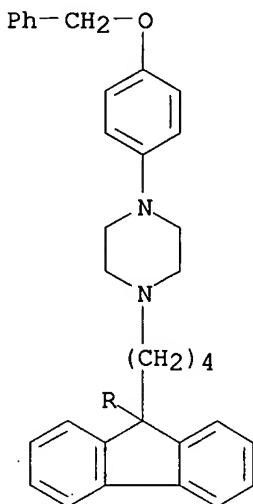
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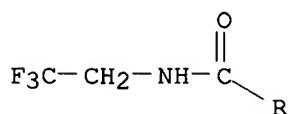
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-(phenylmethoxy)phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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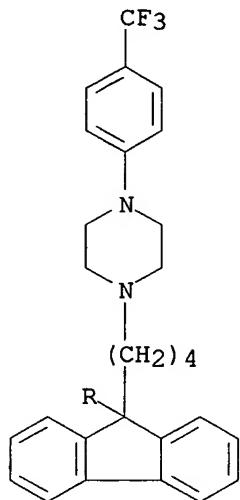
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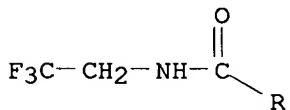
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CN 9H-Fluorene-9-carboxamide, N-(2,2,2-trifluoroethyl)-9-[4-[4-[4-(trifluoromethyl)phenyl]-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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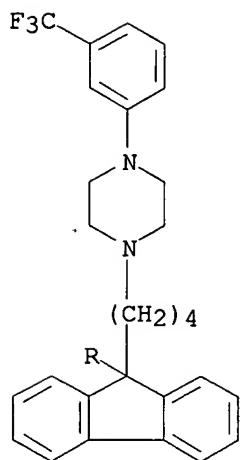
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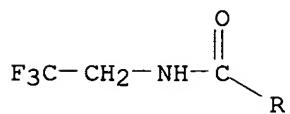
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CN 9H-Fluorene-9-carboxamide, N-(2,2,2-trifluoroethyl)-9-[4-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

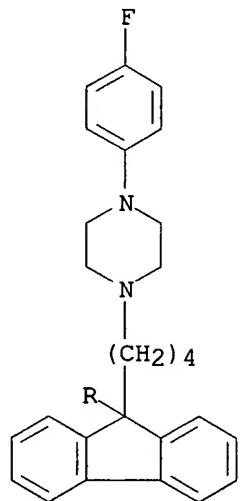


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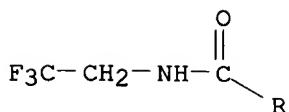


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 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-fluorophenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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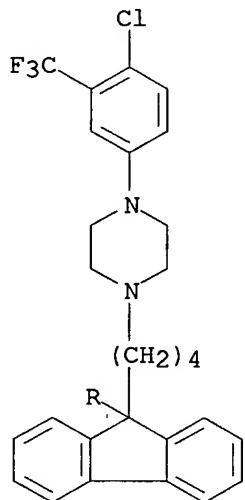
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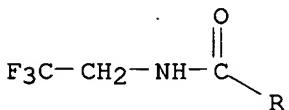
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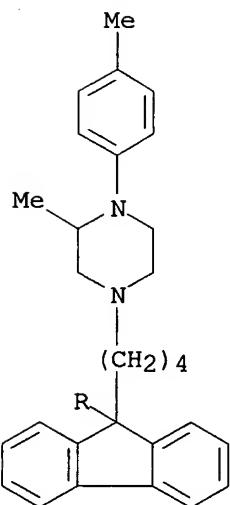
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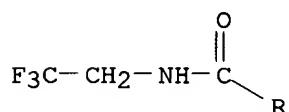
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CN 9H-Fluorene-9-carboxamide, 9-[4-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

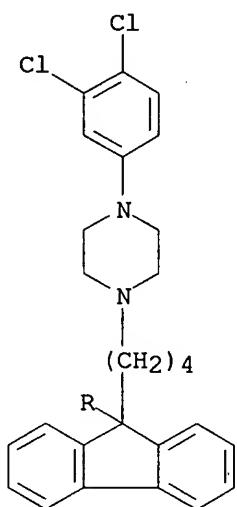


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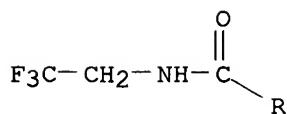


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 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(3,4-dichlorophenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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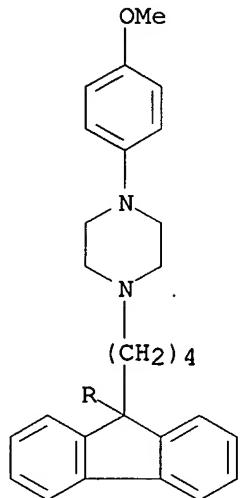
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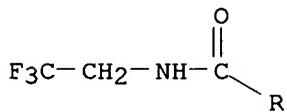
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-methoxyphenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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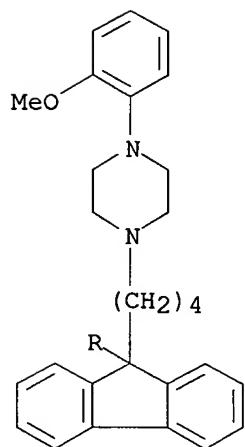
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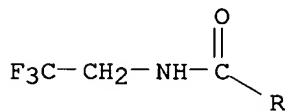
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-methoxyphenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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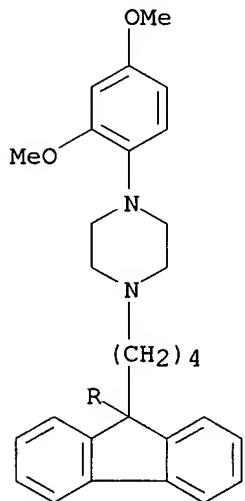


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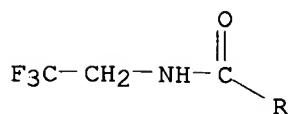


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 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2,4-dimethoxyphenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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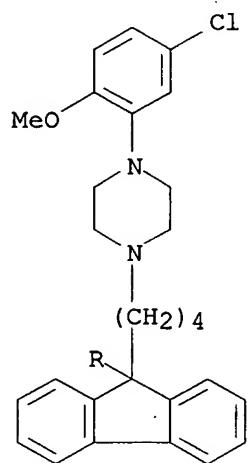
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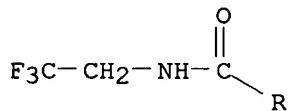
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(5-chloro-2-methoxyphenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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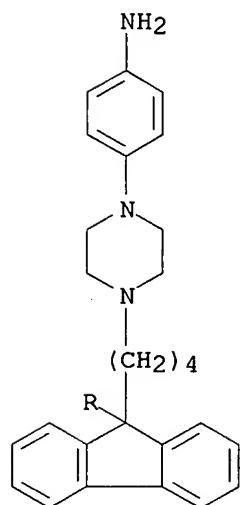
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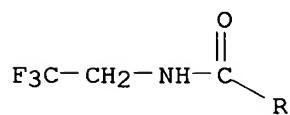
RN 331767-32-9 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(4-aminophenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

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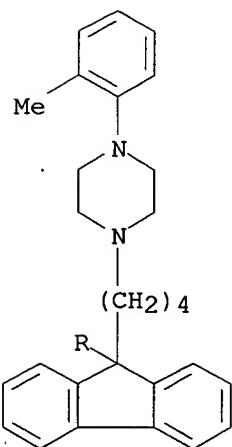


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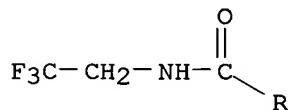
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-methylphenyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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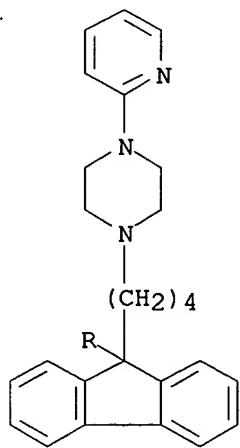


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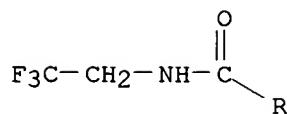


RN 331767-34-1 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-pyridinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-(9CI) (CA INDEX NAME)

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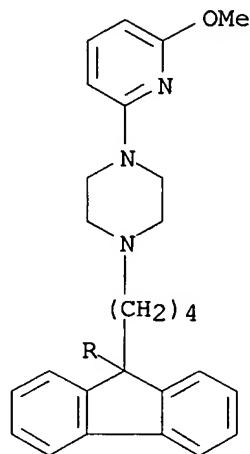
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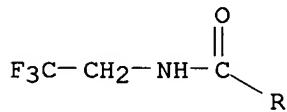
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(6-methoxy-2-pyridinyl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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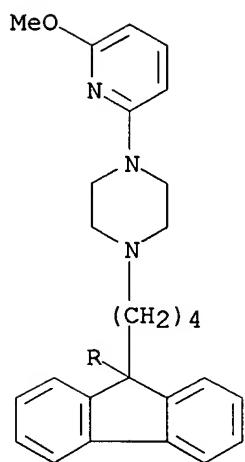
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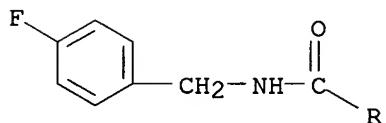
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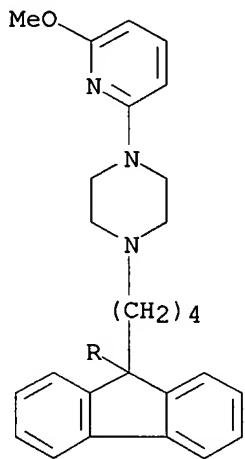
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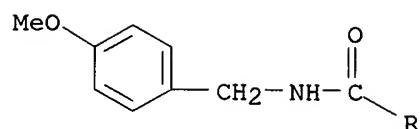
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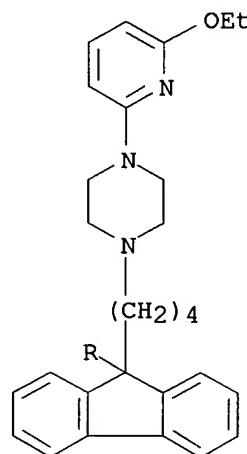
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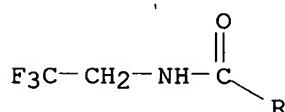
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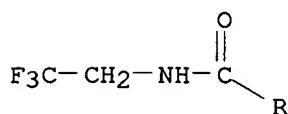
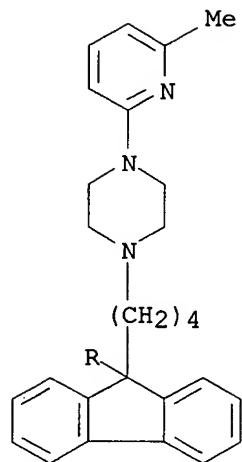


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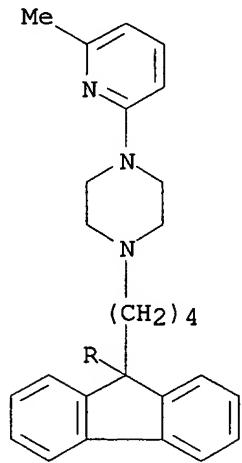
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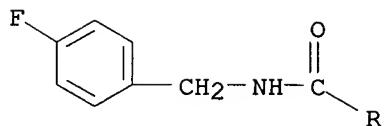


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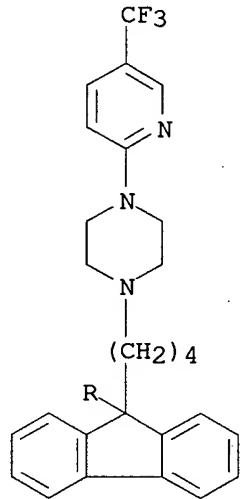
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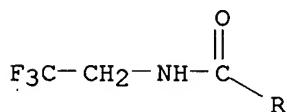
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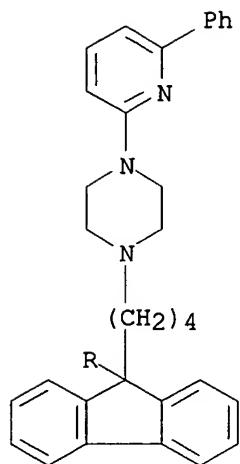
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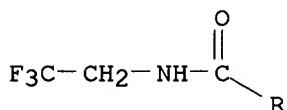
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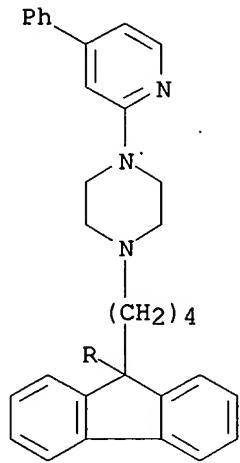
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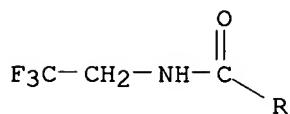
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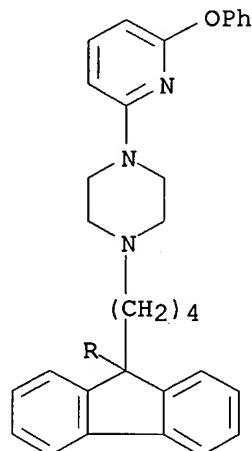
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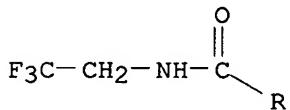
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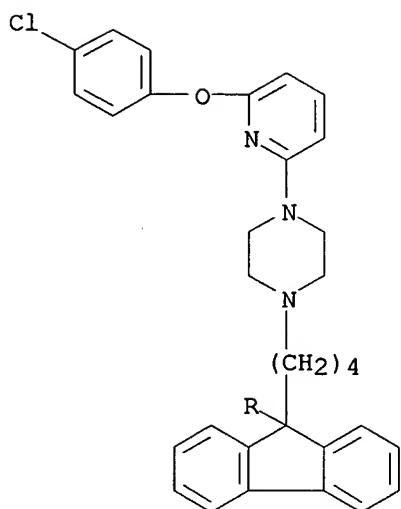
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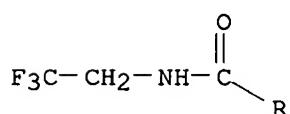
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PAGE 1-A

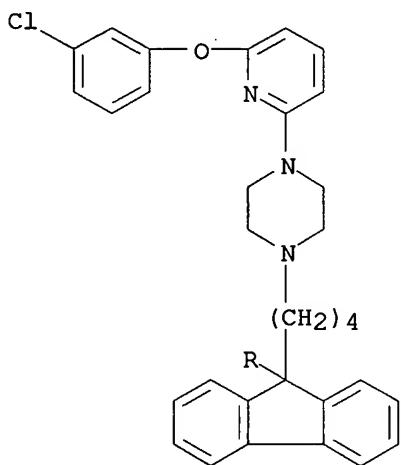


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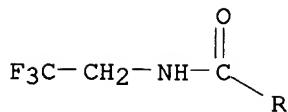


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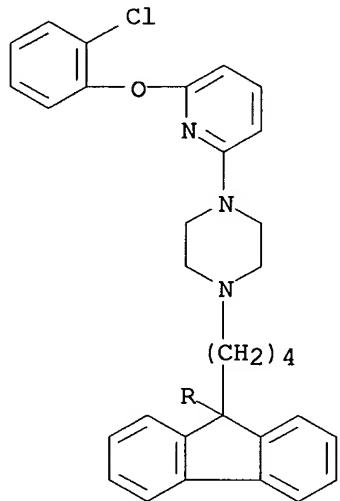
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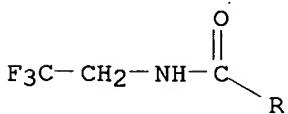
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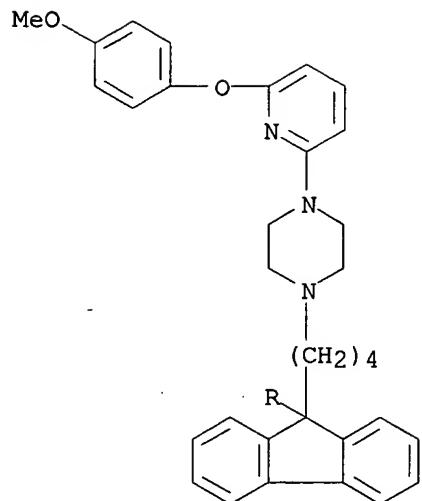
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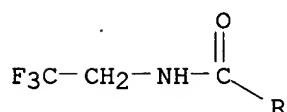
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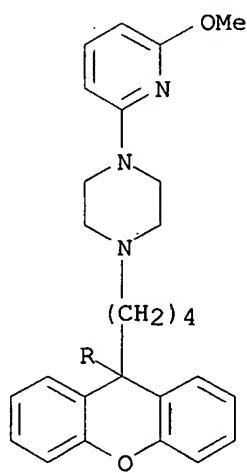


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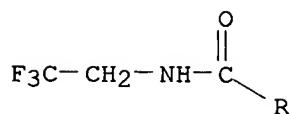


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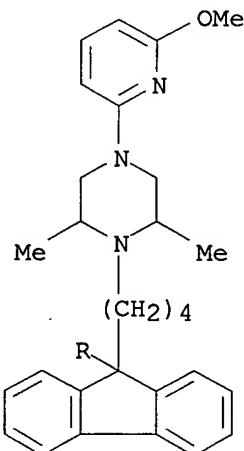
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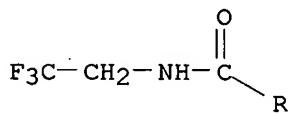
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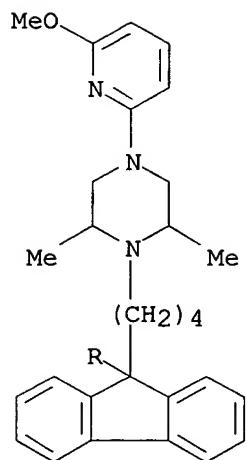
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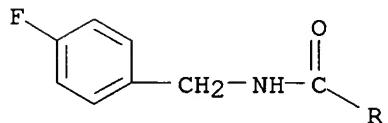
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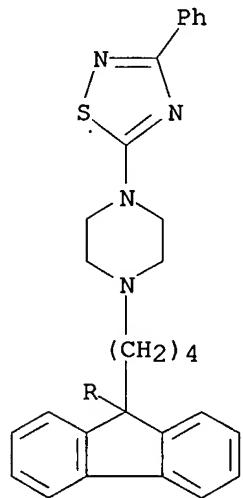
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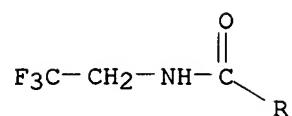


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RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:742072 CAPLUS

DN 133:309907

TI Preparation of nitrogen-containing heterocyclic compounds and benzamide compounds as hypolipidemics and antiarteriosclerotics

IN Ohkura, Naoto; Hiraiwa, Yukiko; Matsushima, Tetsuya; Sasaki, Kazue; Yamamoto, Takehiro; Shiotani, Masaharu; Suzuki, Shigeki; Nakatani, Yuuko; Kuroda, Chizuko; Nagasawa, Mieko; Katano, Kyoaki

PA Meiji Seika Kaisha, Ltd., Japan

SO PCT Int. Appl., 284 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

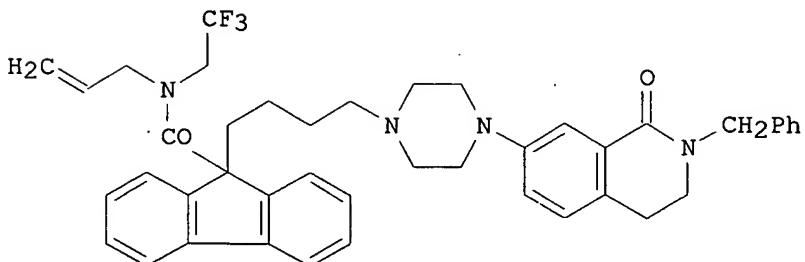
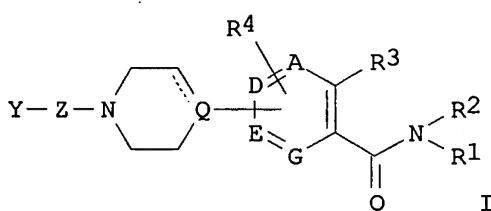
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nothing
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	AU 2000036759	A5	20001114	AU 2000-36759	20000410
	BR 2000009650	A	20020102	BR 2000-9650	20000410
	EP 1180514	A1	20020220	EP 2000-915465	20000410
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PRAI	JP 1999-102559	A	19990409		
	JP 1999-118490	A	19990426		
	JP 1999-119043	A	19990427		
	WO 2000-JP2329	W	20000410		

OS MARPAT 133:309907

GI



AB The title compds. [I; R1 and R2 represent each (un)substituted C1-6 alkyl or alkoxy, C3-8 cycloalkyl, Ph, C2-6 alkenyl or alkynyl, 5- or 6-membered ring (un)satd. heterocyclyl; R3 and R4 represent each hydrogen, (un)substituted C1-6 alkyl, halo, OH, cyano, C2-5 alkoxy carbonyl, C1-6 alkoxy, or CO₂H ; or R2 and R3 may be bonded to each other to form (CH₂)_m, N:CH, CH:N, or (C1-6 alkyl)-C:N; wherein m is 1 or 2; A, D, E and G represent each C, or one of A, D, E and G represents N and the remainders represent C; Q represents N or C; Y represents a group represented by general formula Q1 (wherein X represents hydrogen, CONR₅R₆, etc.; R₈ represents nil or a bond, O, etc.; and R₉ and R₁₀ represent each hydrogen, alkyl, etc.); and Z represents (CH₂)_n, O(CH₂)_i, or CONH(CH₂)_i; wherein n is 0-6; i is 1-6] are prep'd. These compds. have an effect of inhibiting the biosynthesis of triglycerides in the liver and an effect of inhibiting the secretion of apolipoprotein B-contg. lipoproteins from the liver (the latter effect being particularly excellent), without showing the side effect of fat accumulation in the liver, and are useful in treating and preventing hyperlipemia, arteriosclerotic diseases, and pancreatitis. Thus, to a soln. of 2-benzyl-7-[4-[4-[9-(2,2,2-trifluoroethylcarbamoyl)-9H-fluoren-9-yl]butyl]piperazin-1-yl]-3,4-dihydro-2H-isoquinolin-1-one in PhMe were added NaOH, K₂CO₃, tetrabutylammonium hydrogen sulfate, and allyl bromide and the resulting mixt. was stirred at 60.degree. overnight to give title compd. (II). II in vitro inhibited the secretion of apolipoprotein B by 89% and the biosynthesis of triglycerides by 89% in HepG2 cells. Tablet and capsule formulations were also described.'

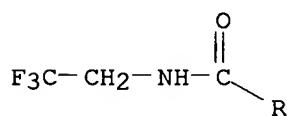
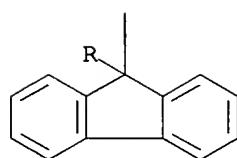
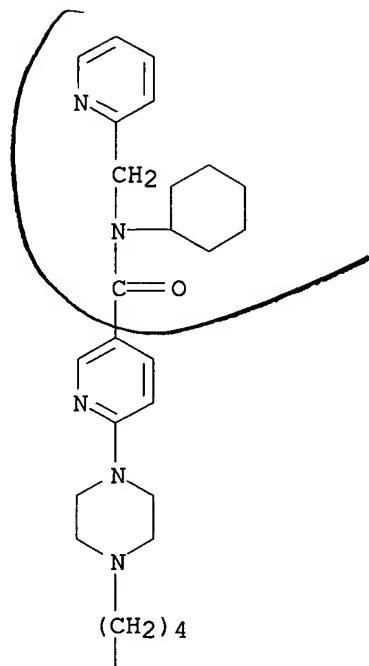
IT 301667-09-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of)

RN 301667-09-4 CAPLUS

CN 3-Pyridinecarboxamide, N-cyclohexyl-N-(2-pyridinylmethyl)-6-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



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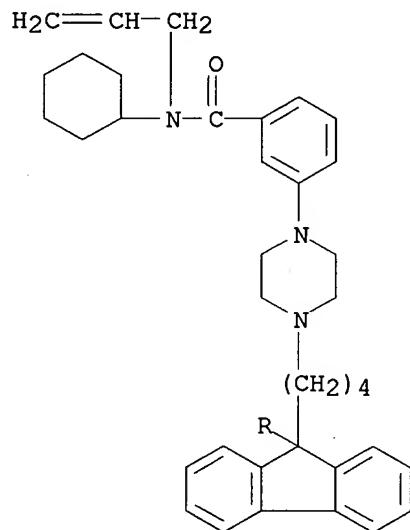
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of nitrogen-contg. heterocyclic compds. and benzamide compds. as hypolipidemics and antiarteriosclerotics and inhibitors of apolipoprotein B-contg. lipoproteins and biosynthesis of triglycerides)

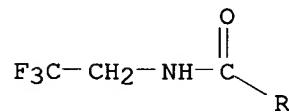
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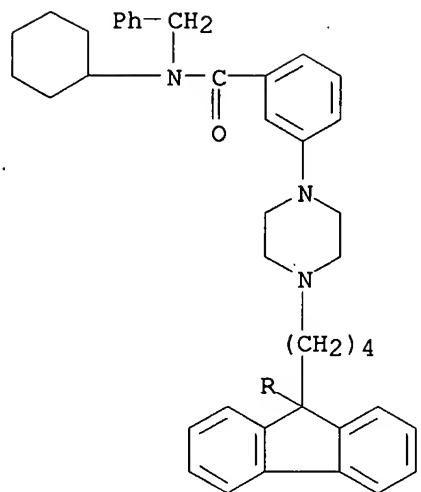
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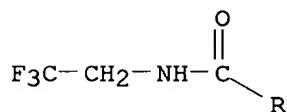
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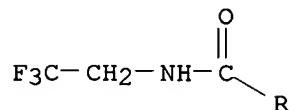
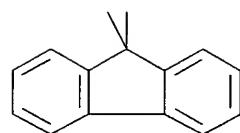
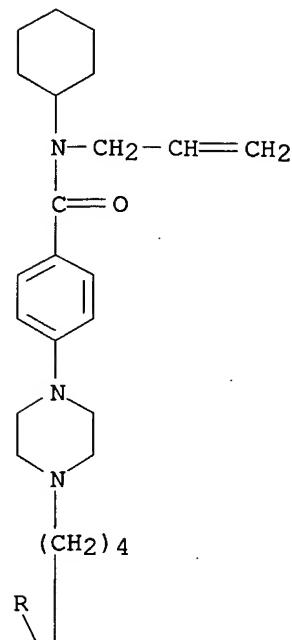


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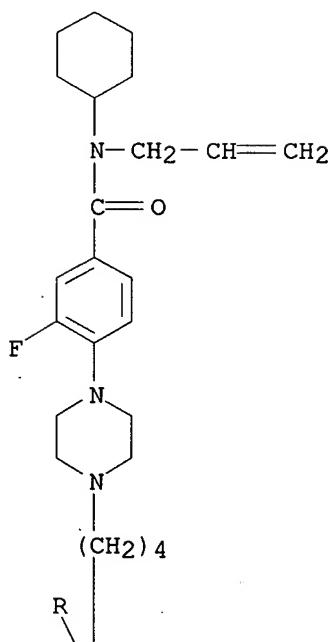
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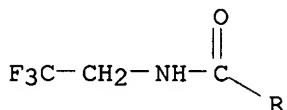
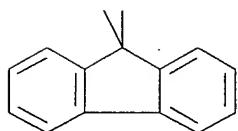
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[(cyclohexyl-2-propenylamino)carbonyl]-2-fluorophenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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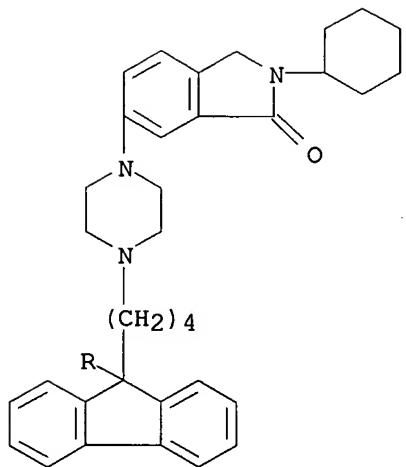
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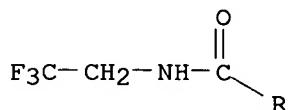
RN 301666-46-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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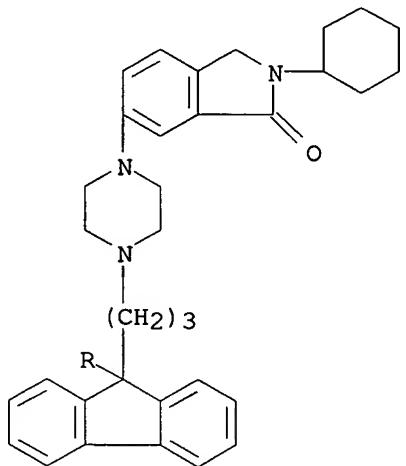
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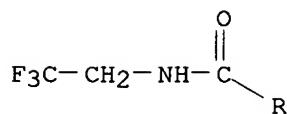
RN 301666-47-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME).

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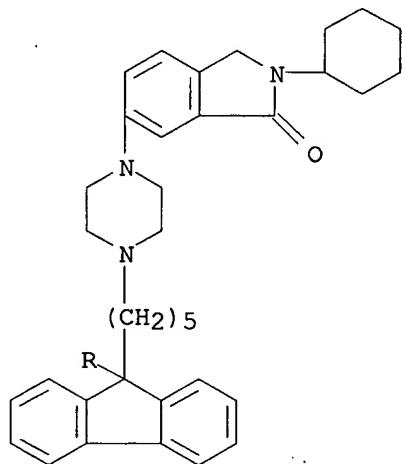
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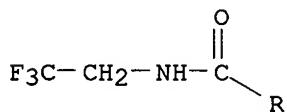
RN 301666-48-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[5-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]pentyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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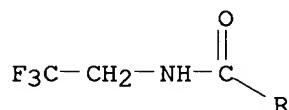
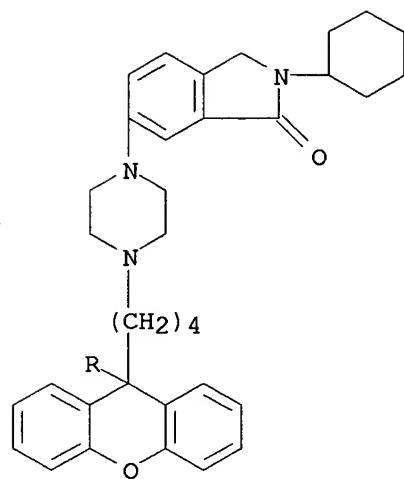


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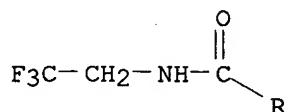
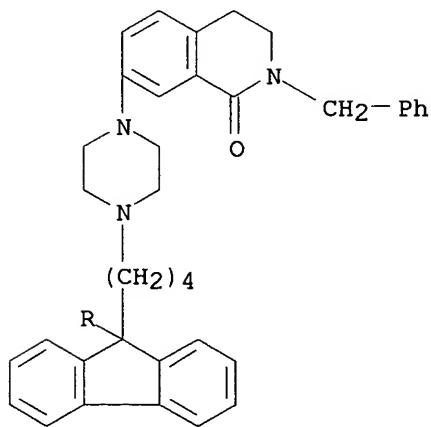
RN 301666-50-2 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



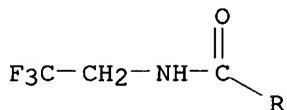
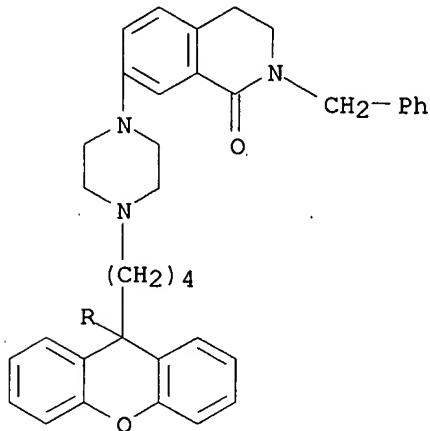
RN 301666-52-4 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[1,2,3,4-tetrahydro-1-oxo-2-(phenylmethyl)-7-isooquinolinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



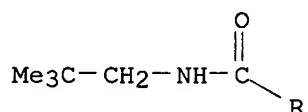
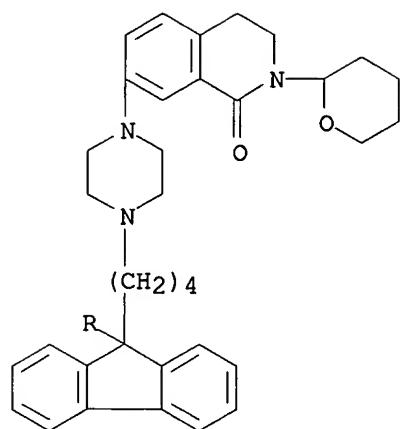
RN 301666-53-5 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[4-[4-[1,2,3,4-tetrahydro-1-oxo-2-(phenylmethyl)-7-isoquinolinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



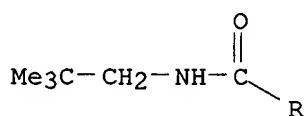
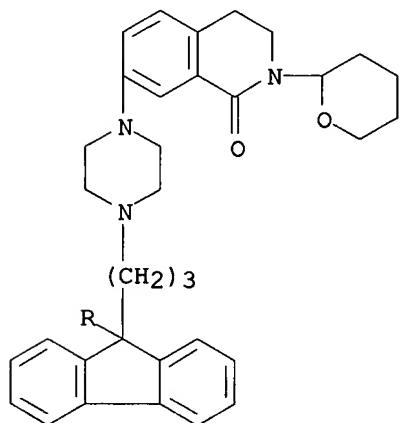
RN 301666-54-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, N-(2,2-dimethylpropyl)-9-[4-[4-[1,2,3,4-tetrahydro-1-oxo-2-(tetrahydro-2H-pyran-2-yl)-7-isoquinolinyl]-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



RN 301666-57-9 CAPLUS

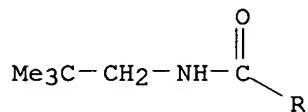
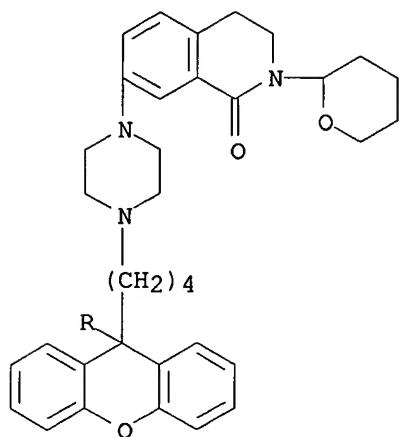
CN 9H-Fluorene-9-carboxamide, N-(2,2-dimethylpropyl)-9-[3-[4-[1,2,3,4-tetrahydro-1-oxo-2-(tetrahydro-2H-pyran-2-yl)-7-isoquinolinyl]-1-piperazinyl]propyl] (9CI) (CA INDEX NAME)



RN 301666-58-0 CAPLUS

CN 9H-Xanthene-9-carboxamide, N-(2,2-dimethylpropyl)-9-[4-[4-[1,2,3,4-tetrahydro-1-oxo-2-(tetrahydro-2H-pyran-2-yl)-7-isoquinolinyl]-1-

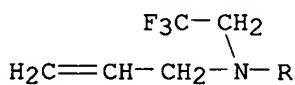
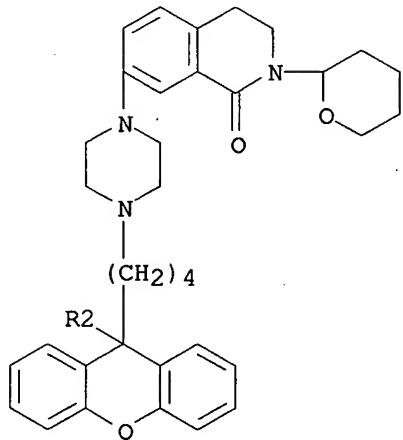
piperazinyl]butyl]- (9CI) (CA INDEX NAME)



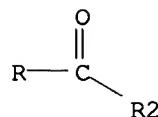
RN 301666-59-1 CAPLUS

CN 9H-Xanthene-9-carboxamide, N-2-propenyl-9-[4-[4-[1,2,3,4-tetrahydro-1-oxo-2-(tetrahydro-2H-pyran-2-yl)-7-isoquinolinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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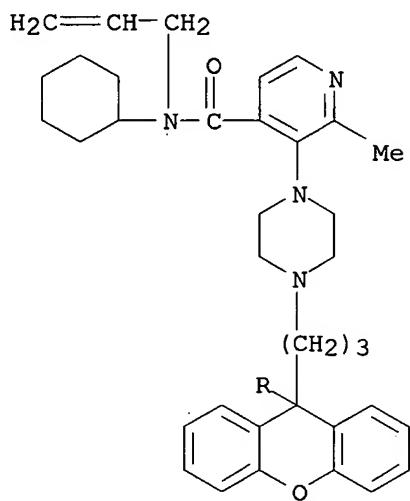
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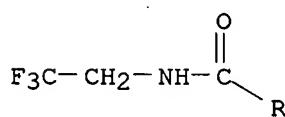
RN 301666-97-7 CAPLUS

CN 4-Pyridinecarboxamide, N-cyclohexyl-2-methyl-N-2-propenyl-3-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-xanthen-9-yl]propyl]-1-piperazinyl- (9CI) (CA INDEX NAME)

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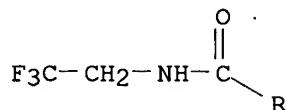
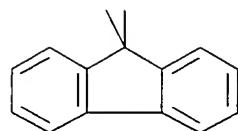
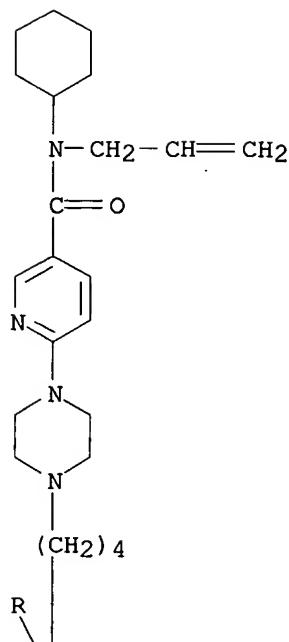


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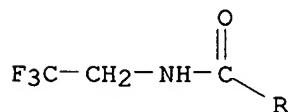
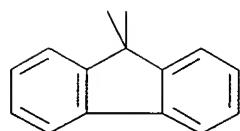
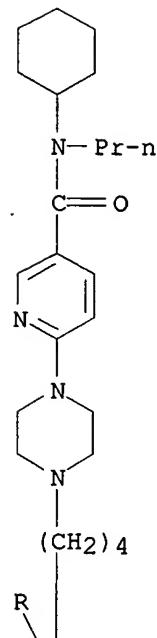
RN 301667-02-7 CAPLUS

CN 3-Pyridinecarboxamide, N-cyclohexyl-N-2-propenyl-6-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl- (9CI) (CA INDEX NAME)



RN 301667-08-3 CAPLUS

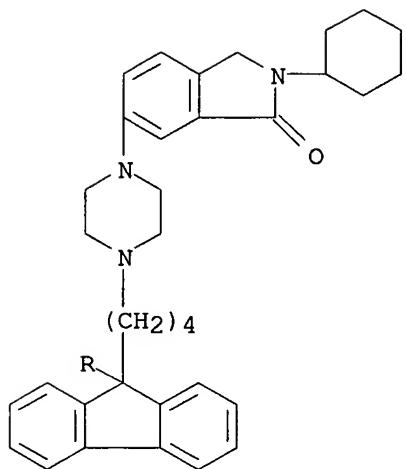
CN 3-Pyridinecarboxamide, N-cyclohexyl-N-propyl-6-[4-[4-[9-[[2,2,2-trifluoroethyl]amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl]-
(9CI) (CA INDEX NAME)



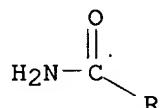
RN 301667-10-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

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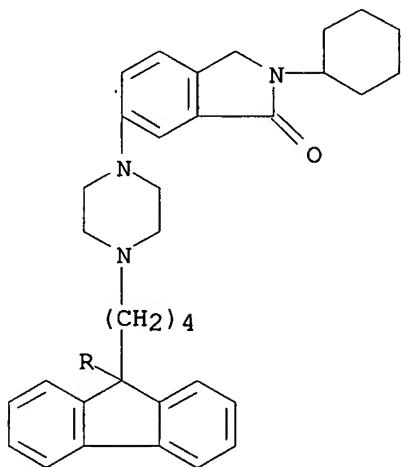
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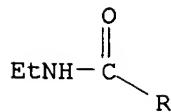
RN 301667-12-9 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-ethyl- (9CI) (CA INDEX NAME)

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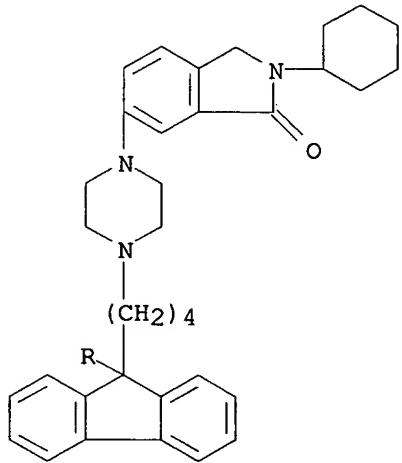
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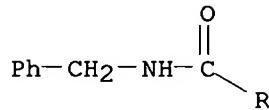
RN 301667-14-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

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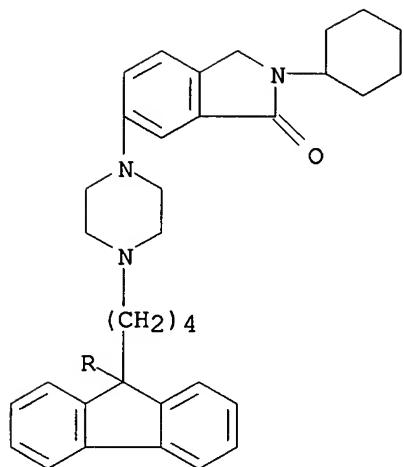
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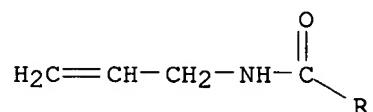
RN 301667-16-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-2-propenyl- (9CI) (CA INDEX NAME)

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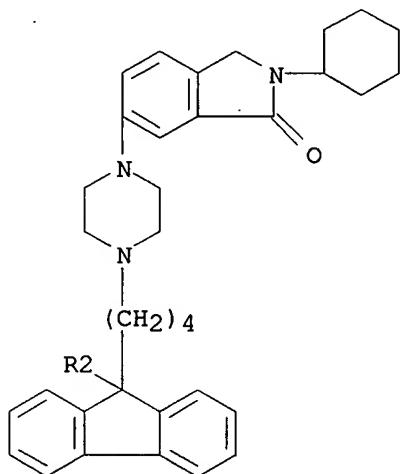


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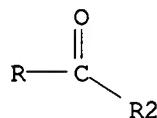
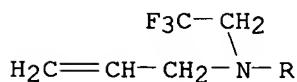


RN 301667-18-5 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-2-propenyl-N-(2,2,2-trifluoroethyl)-
 (9CI) (CA INDEX NAME)

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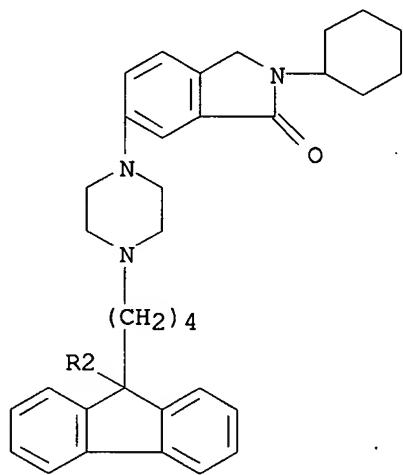
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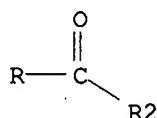
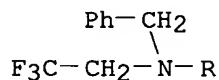
RN 301667-19-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-(phenylmethyl)-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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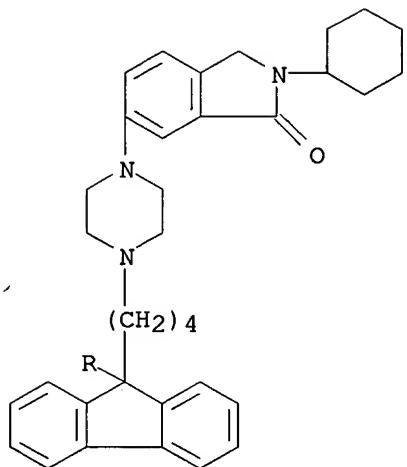


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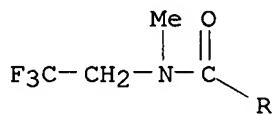
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-N-methyl-N-(2,2,2-trifluoroethyl)-

(9CI) (CA INDEX NAME)

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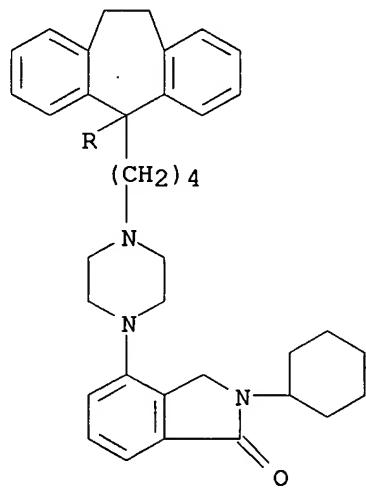
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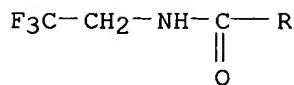


RN 301667-21-0 CAPLUS

CN 5H-Dibenzo[a,d]cycloheptene-5-carboxamide, 5-[4-[4-(2-cyclohexyl-2,3-dihydro-1-oxo-1H-isoindol-4-yl)-1-piperazinyl]butyl]-10,11-dihydro-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

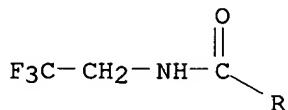
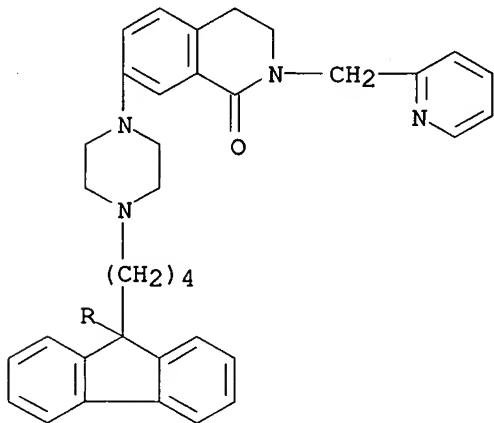
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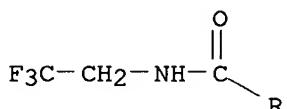
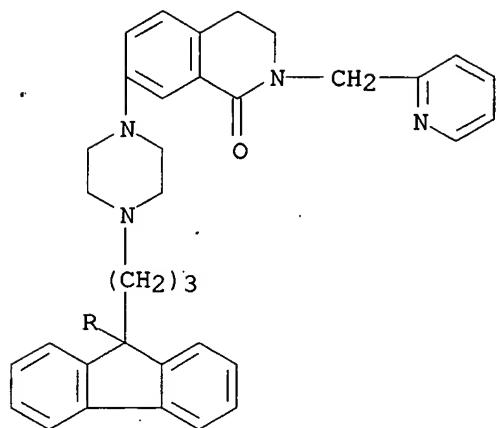
RN 301667-25-4 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[1,2,3,4-tetrahydro-1-oxo-2-(2-pyridinylmethyl)-7-isoquinolinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301667-28-7 CAPLUS

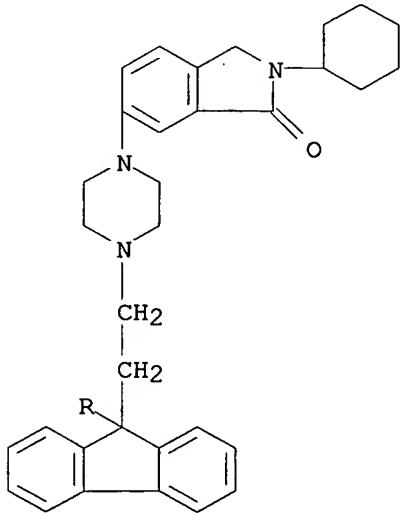
CN 9H-Fluorene-9-carboxamide, 9-[3-[4-[1,2,3,4-tetrahydro-1-oxo-2-(2-pyridinylmethyl)-7-isoquinolinyl]-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

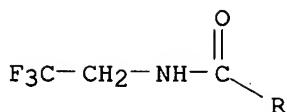


RN 301667-29-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[2-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]ethyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

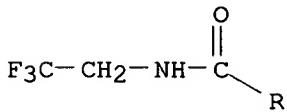
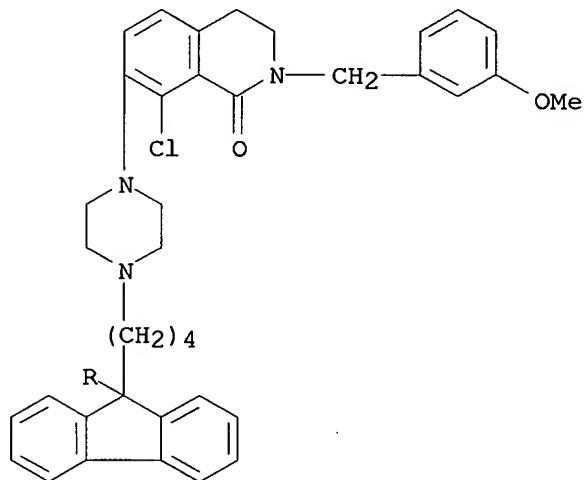
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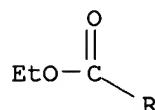
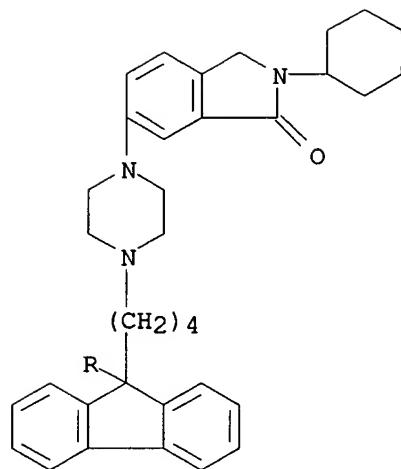
RN 301667-33-4 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[8-chloro-1,2,3,4-tetrahydro-2-[(3-methoxyphenyl)methyl]-1-oxo-7-isoquinolinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



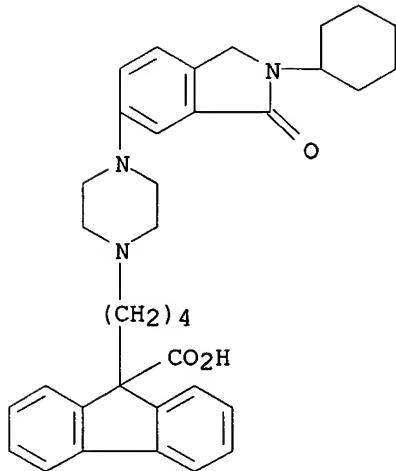
RN 301667-37-8 CAPLUS

CN 9H-Fluorene-9-carboxylic acid, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]-, ethyl ester (9CI) (CA INDEX NAME)



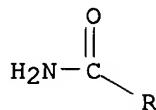
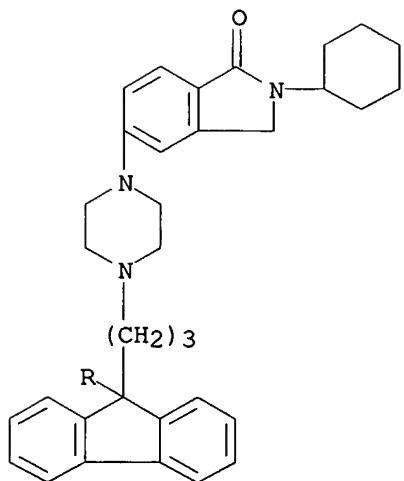
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CN 9H-Fluorene-9-carboxylic acid, 9-[4-[4-(2-cyclohexyl-2,3-dihydro-3-oxo-1H-isoindol-5-yl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



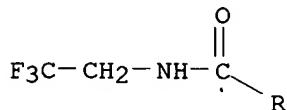
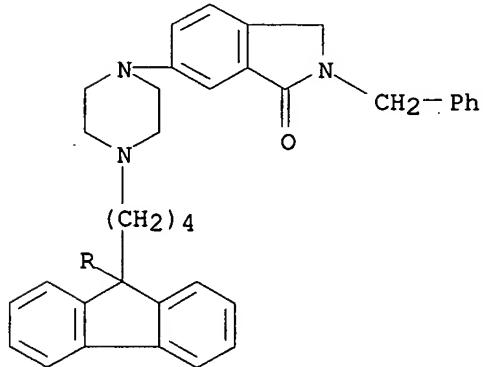
RN 301667-40-3 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[4-(2-cyclohexyl-2,3-dihydro-1-oxo-1H-isoindol-5-yl)-1-piperazinyl]propyl]- (9CI) (CA INDEX NAME)



RN 301667-50-5 CAPLUS

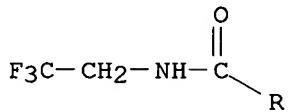
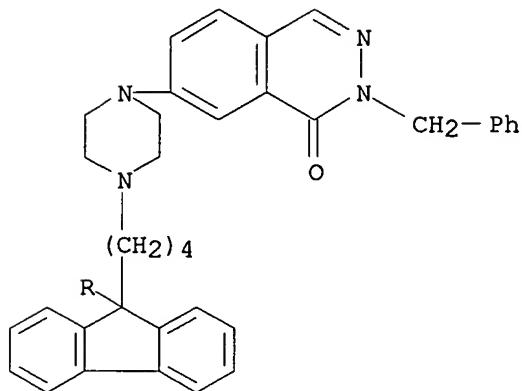
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[2,3-dihydro-3-oxo-2-(phenylmethyl)-1H-isoindol-5-yl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301667-58-3 CAPLUS

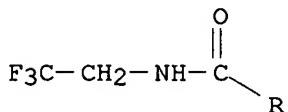
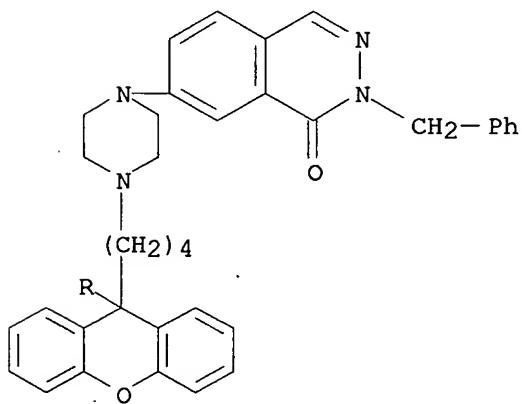
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[3,4-dihydro-4-oxo-3-(phenylmethyl)-6-

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INDEX NAME)



RN 301667-61-8 CAPLUS

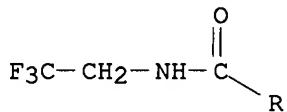
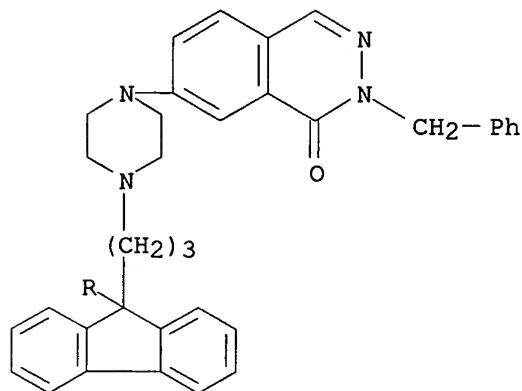
CN 9H-Xanthene-9-carboxamide, 9-[4-[4-[3,4-dihydro-4-oxo-3-(phenylmethyl)-6-phthalazinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301667-62-9 CAPLUS

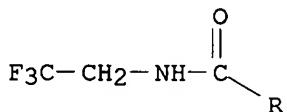
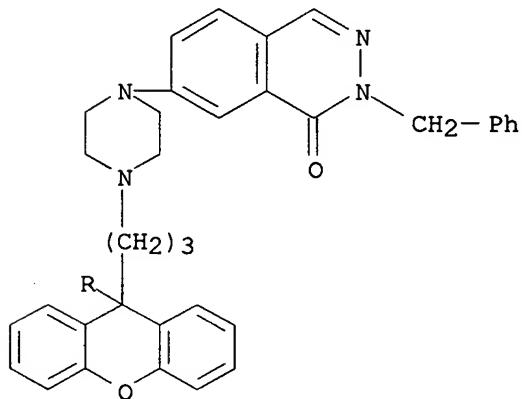
CN 9H-Fluorene-9-carboxamide, 9-[3-[4-[3,4-dihydro-4-oxo-3-(phenylmethyl)-6-

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INDEX NAME)



RN 301667-63-0 CAPLUS

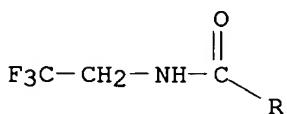
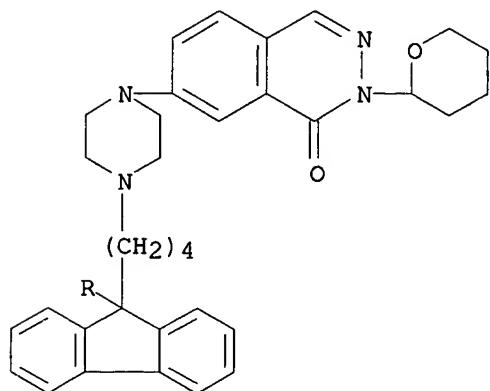
CN 9H-Xanthene-9-carboxamide, 9-[3-[4-[3,4-dihydro-4-oxo-3-(phenylmethyl)-6-phthalazinyl]-1-piperazinylpropyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301667-64-1 CAPLUS

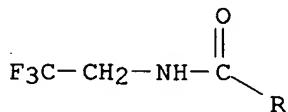
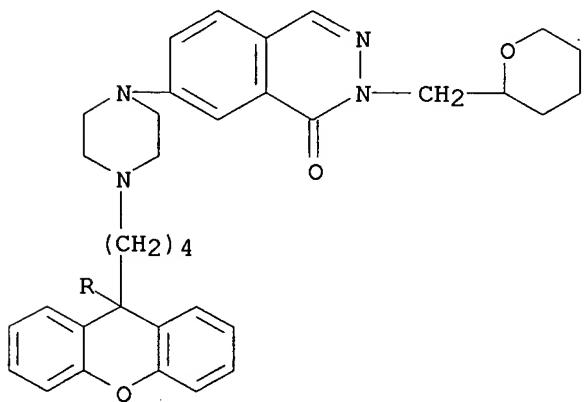
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[3,4-dihydro-4-oxo-3-(tetrahydro-2H-

pyran-2-yl)-6-phthalazinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-
(9CI) (CA INDEX NAME)



RN 301667-68-5 CAPLUS

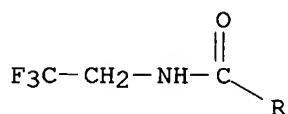
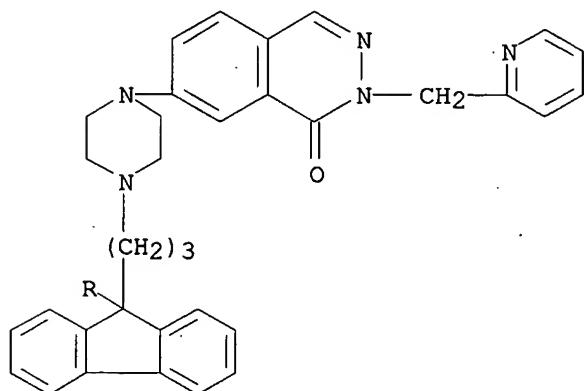
CN 9H-Xanthene-9-carboxamide, 9-[4-[4-[3,4-dihydro-4-oxo-3-(tetrahydro-2H-pyran-2-yl)methyl]-6-phthalazinyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301667-69-6 CAPLUS

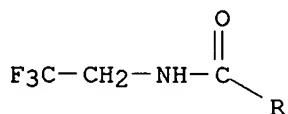
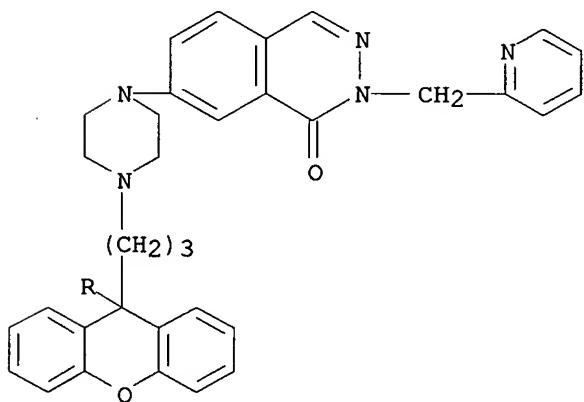
CN 9H-Fluorene-9-carboxamide, 9-[3-[4-[3,4-dihydro-4-oxo-3-(2-

pyridinylmethyl)-6-phthalazinyl]-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301667-77-6 CAPLUS

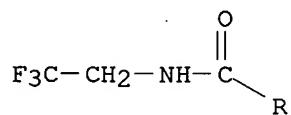
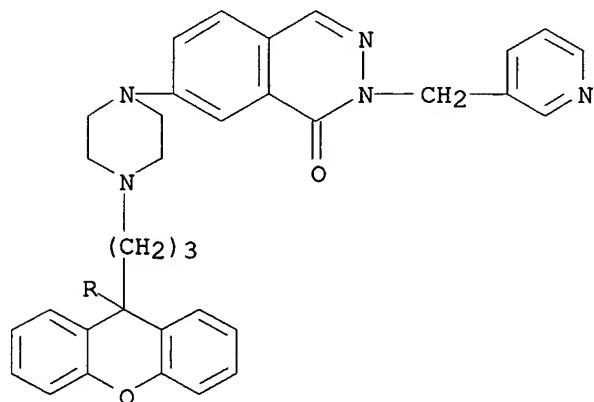
CN 9H-Xanthene-9-carboxamide, 9-[3-[4-[3,4-dihydro-4-oxo-3-(2-pyridinylmethyl)-6-phthalazinyl]-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301667-79-8 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[3-[4-[3,4-dihydro-4-oxo-3-(3-

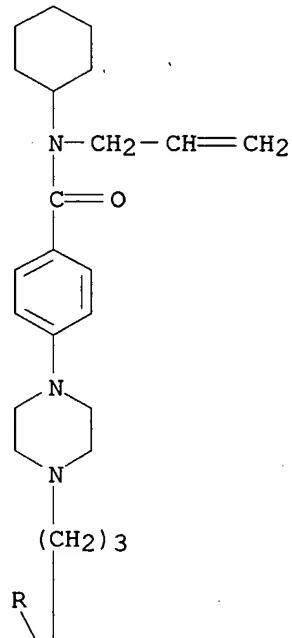
pyridinylmethyl)-6-phthalazinyl-1-piperazinylpropyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



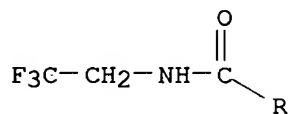
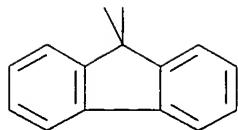
RN 301667-99-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[4-[4-[(cyclohexyl-2-propenylamino)carbonyl]phenyl]-1-piperazinylpropyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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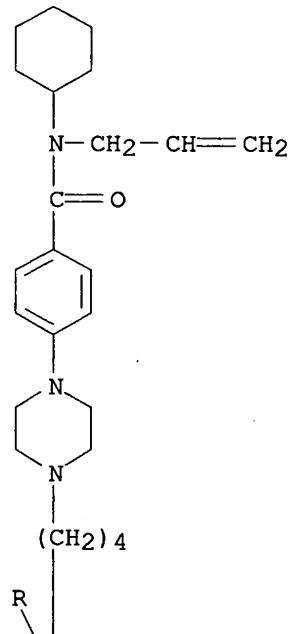


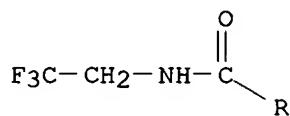
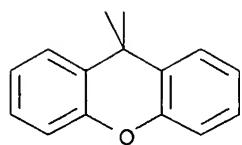
PAGE 2-A



RN 301668-01-9 CAPLUS
CN 9H-Xanthene-9-carboxamide, 9-[4-[4-[4-[(cyclohexyl-2-propenylamino)carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

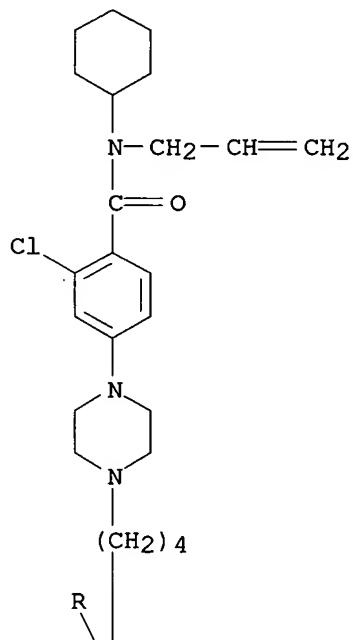
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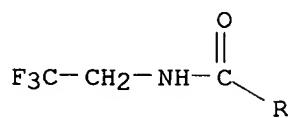
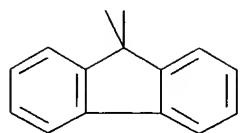


RN 301668-03-1 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[3-chloro-4-[(cyclohexyl-2-propenylamino)carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

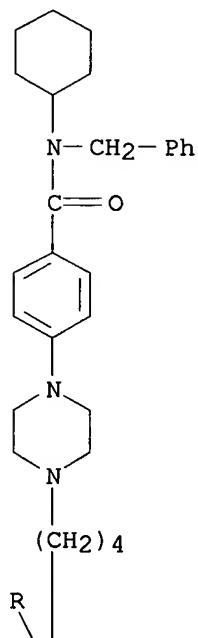


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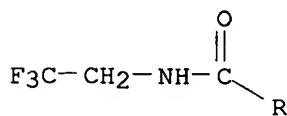
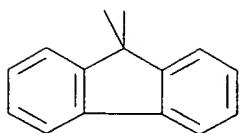


RN 301668-06-4 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[[cyclohexyl(phenylmethyl)amino]carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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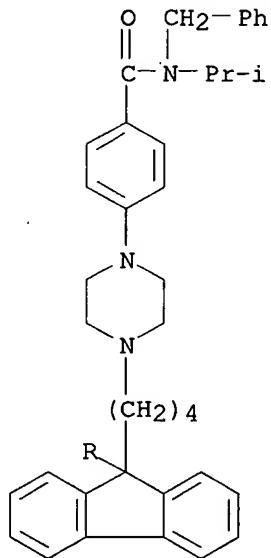
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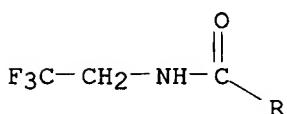
RN 301668-08-6 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[(1-methylethyl)(phenylmethyl)amino]carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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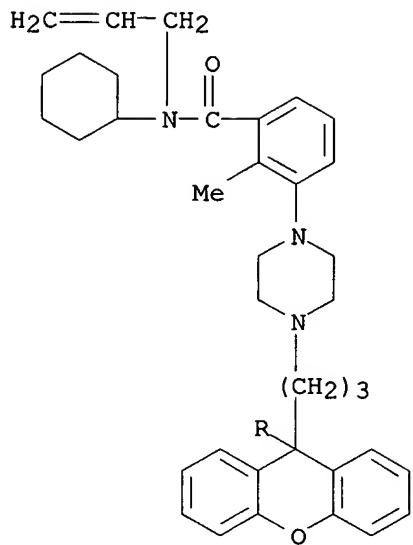
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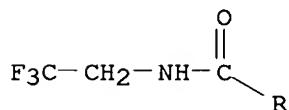
RN 301668-09-7 CAPLUS

CN 9H-Xanthene-9-carboxamide, 9-[3-[4-[3-[(cyclohexyl-2-propenylamino)carbonyl]-2-methylphenyl]-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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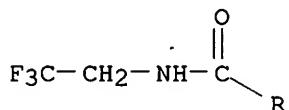
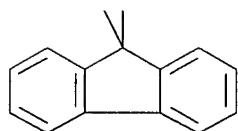
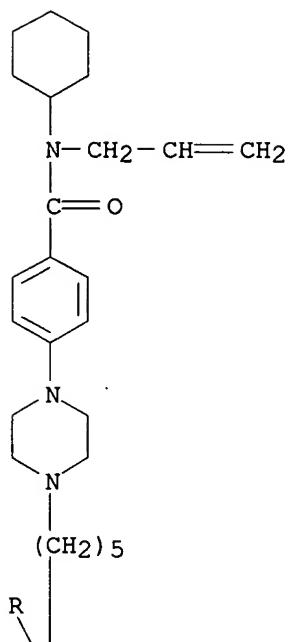


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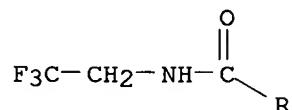
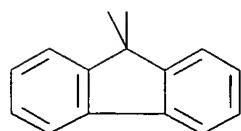
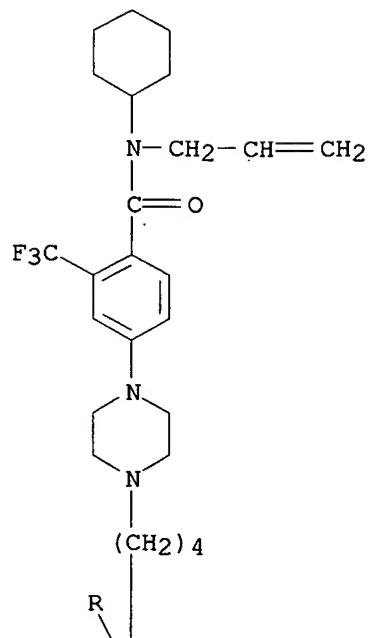


RN 301668-12-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[5-[4-[4-[(cyclohexyl-2-propenylamino)carbonyl]phenyl]-1-piperazinyl]pentyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

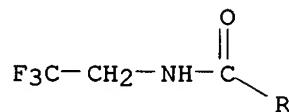
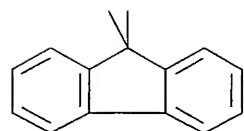
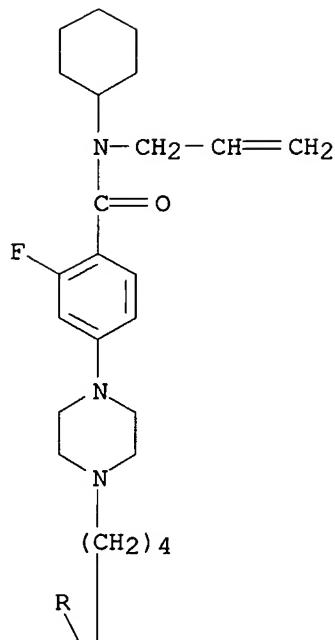


RN 301668-14-4 CAPLUS
 CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[(cyclohexyl-2-propenylamino)carbonyl]-3-(trifluoromethyl)phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 301668-18-8 CAPLUS

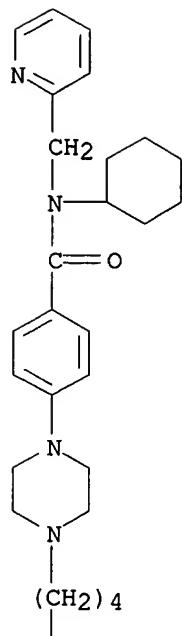
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[(cyclohexyl-2-propenylamino)carbonyl]-3-fluorophenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



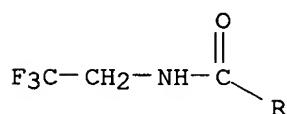
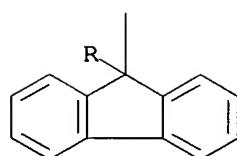
RN 301668-23-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[[cyclohexyl(2-pyridinylmethyl)amino]carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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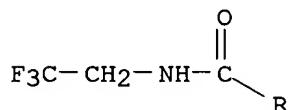
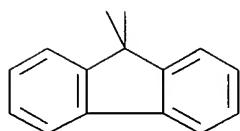
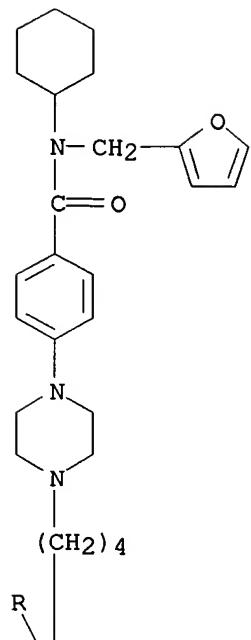


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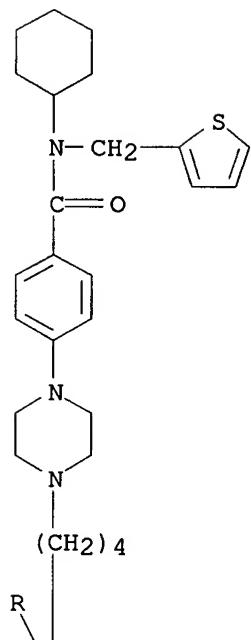
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[[cyclohexyl(2-furanylmethyl)amino]carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



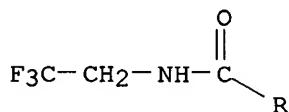
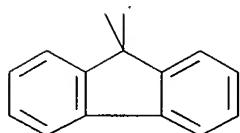
RN 301668-25-7 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[[cyclohexyl(2-thienylmethyl)amino]carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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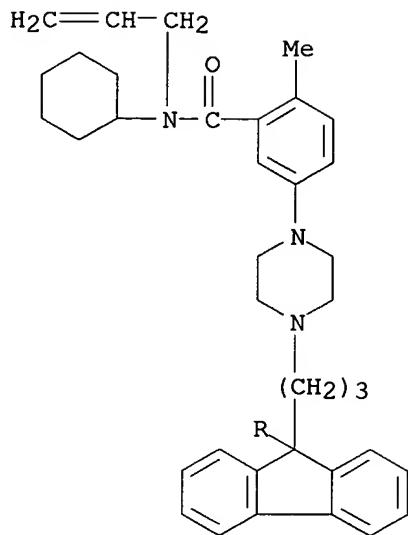
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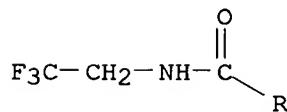
RN 301668-26-8 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[4-[3-[(cyclohexyl-2-propenylamino)carbonyl]-4-methylphenyl]-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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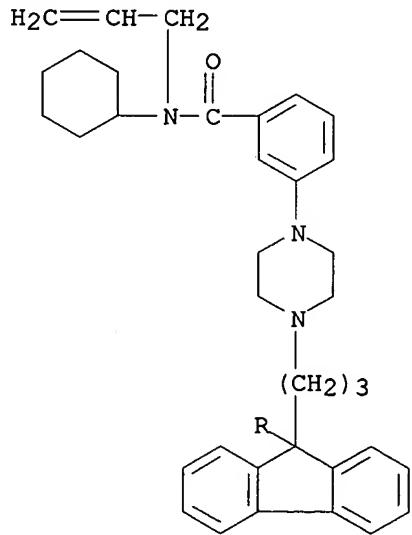
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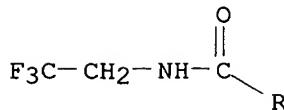


RN 301668-31-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[4-[3-[(cyclohexyl-2-propenylamino)carbonyl]phenyl]-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

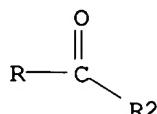
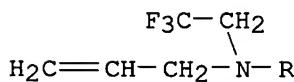
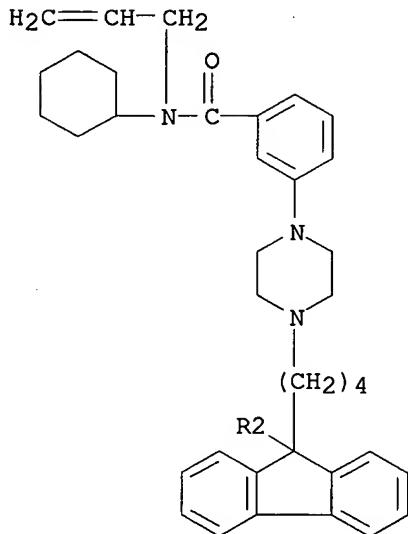
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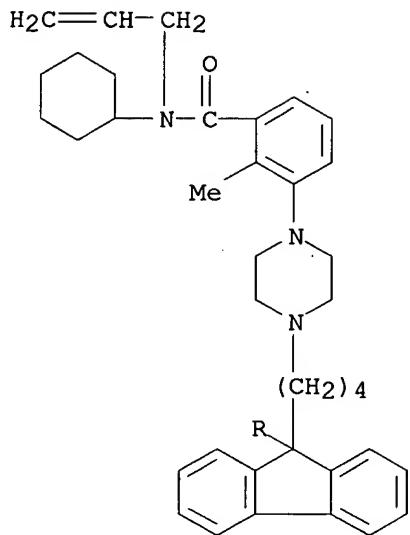
CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[3-[(cyclohexyl-2-propenylamino)carbonyl]phenyl]-1-piperazinyl]butyl]-N-2-propenyl-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



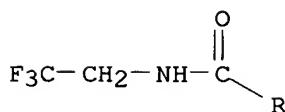
RN 301668-49-5 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[3-[(cyclohexyl-2-propenylamino) carbonyl]-2-methylphenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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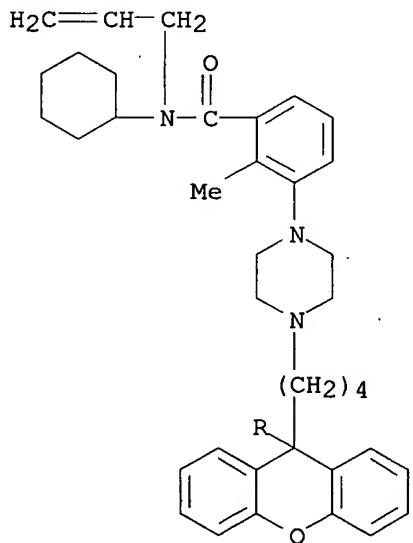


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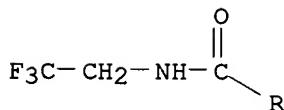


RN 301668-52-0 CAPLUS
 CN 9H-Xanthene-9-carboxamide, 9-[4-[4-[3-[(cyclohexyl-2-propenylamino)carbonyl]-2-methylphenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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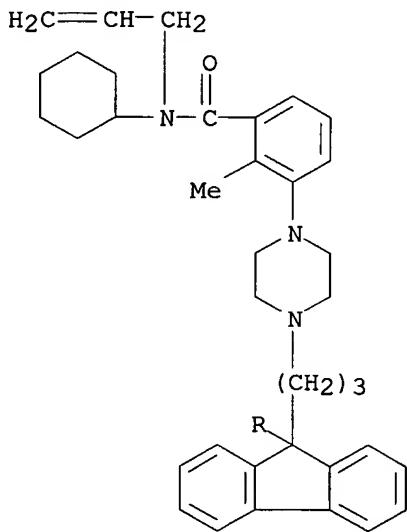
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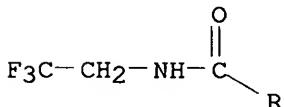
RN 301668-54-2 CAPLUS

CN 9H-Fluorene-9-carboxamide, 9-[3-[4-[3-[(cyclohexyl-2-propenylamino)carbonyl]-2-methylphenyl]-1-piperazinyl]propyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

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IT 301666-34-2P 301666-37-5P 301667-04-9P
 301667-05-0P 301667-31-2P 301667-32-3P
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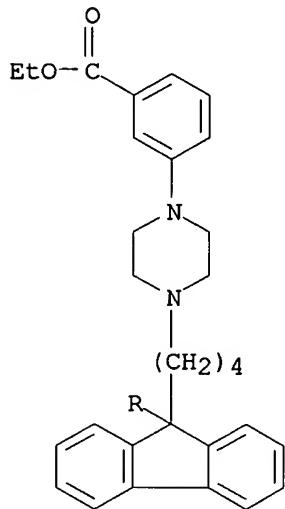
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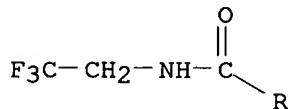
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CN Benzoic acid, 3-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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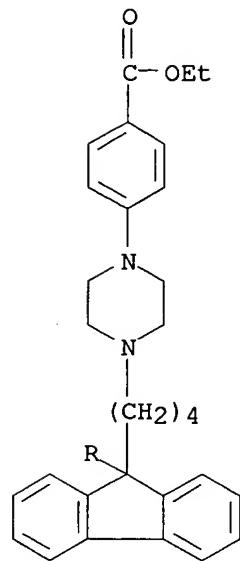
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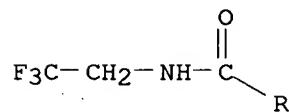
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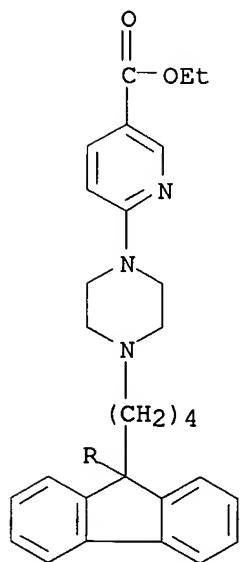
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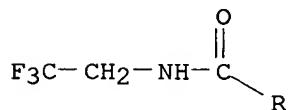
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CN 3-Pyridinecarboxylic acid, 6-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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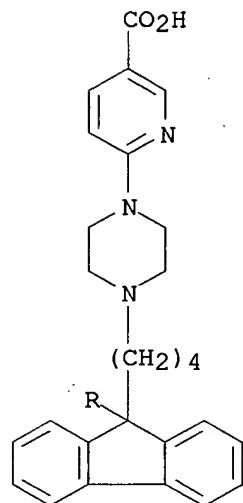
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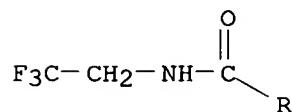
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CN 3-Pyridinecarboxylic acid, 6-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl- (9CI) (CA INDEX NAME)

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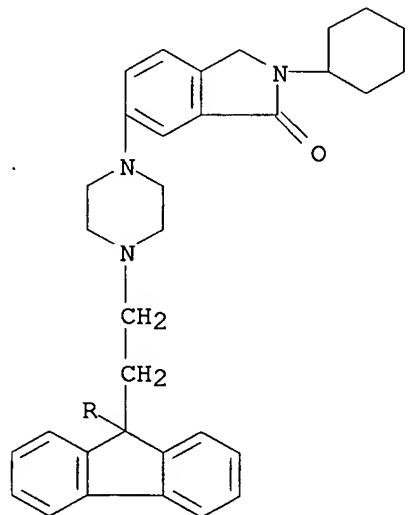
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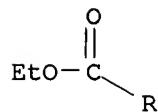


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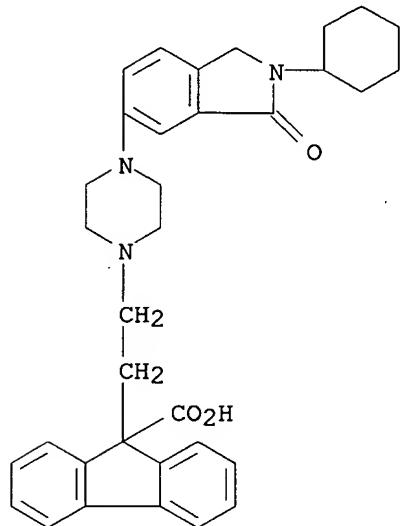
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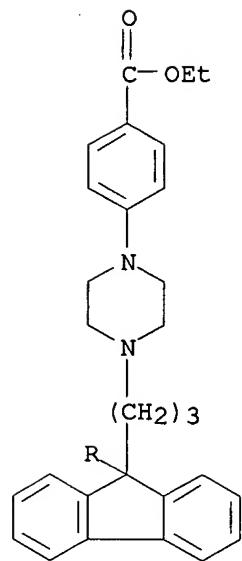
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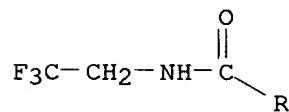
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CN Benzoic acid, 4-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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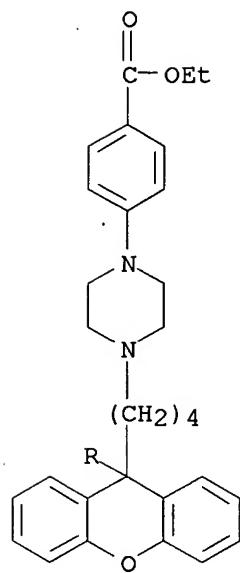
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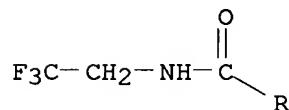
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CN Benzoic acid, 4-[4-[4-[9-[[2,2,2-trifluoroethyl]amino]carbonyl]-9H-xanthan-9-yl]butyl]-1-piperazinyl]-, ethyl ester (9CI) (CA INDEX NAME)

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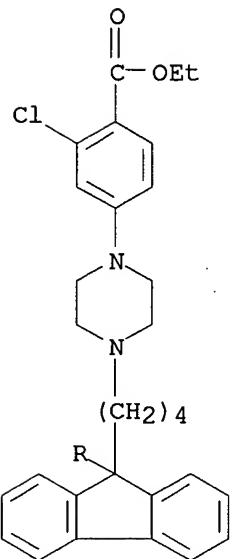
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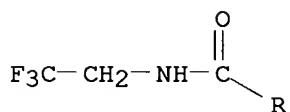
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CN Benzoic acid, 2-chloro-4-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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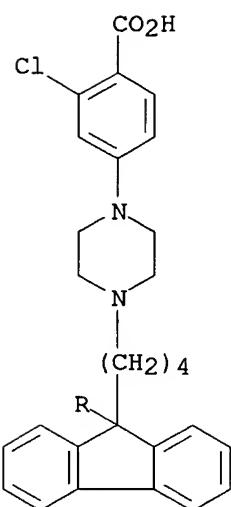
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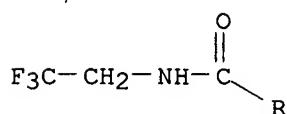
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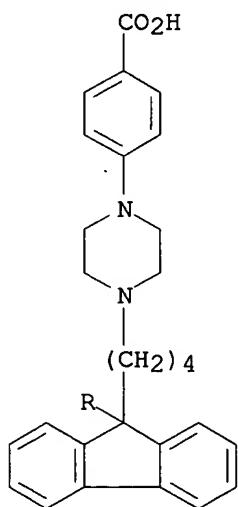


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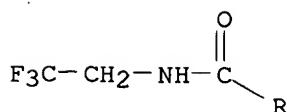


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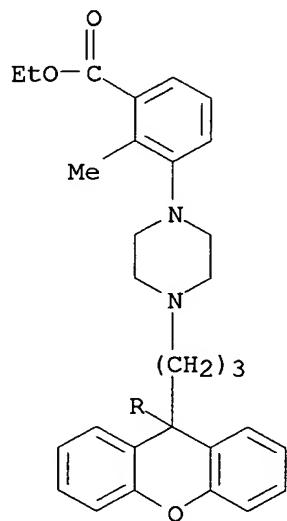
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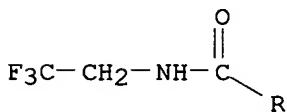
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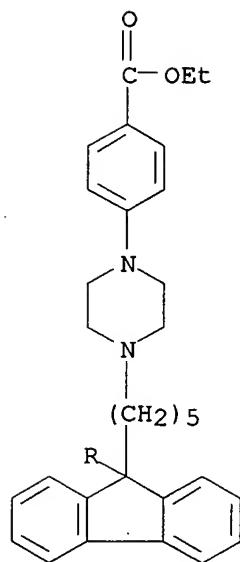
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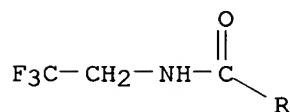
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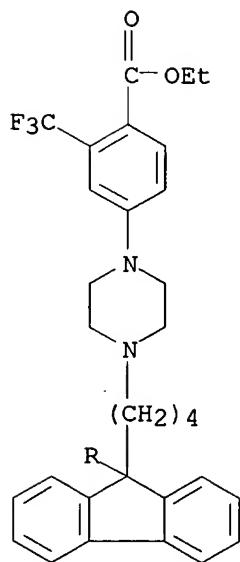
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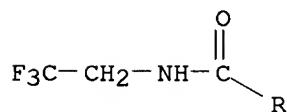
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CN Benzoic acid, 4-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl]-2-(trifluoromethyl)-, ethyl ester (9CI)
(CA INDEX NAME)

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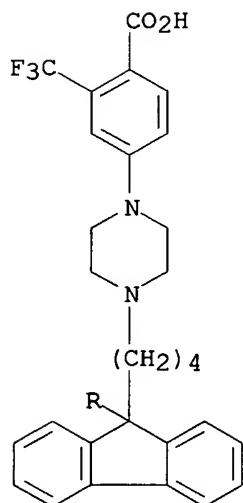
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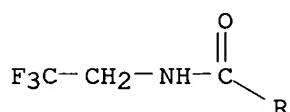
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CN Benzoic acid, 4-[4-[4-[9-[[[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

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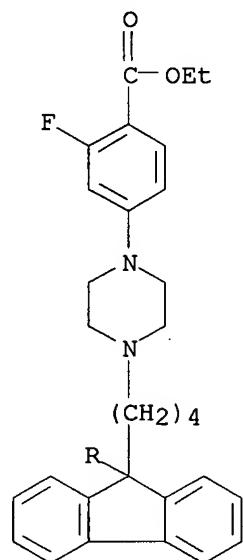
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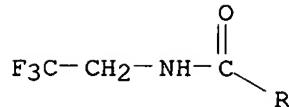
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CN Benzoic acid, 2-fluoro-4-[4-[4-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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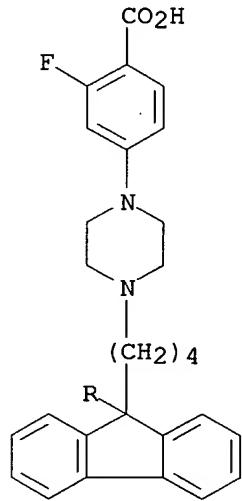
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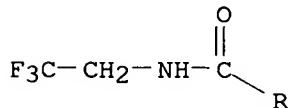
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CN Benzoic acid, 2-fluoro-4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl]-(9CI) (CA INDEX NAME)

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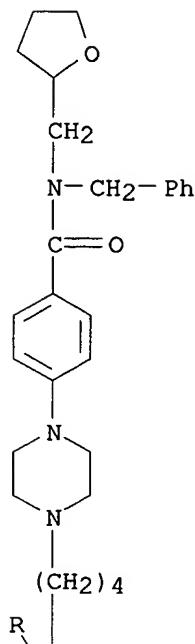
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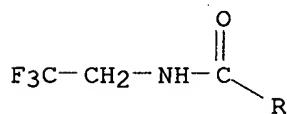
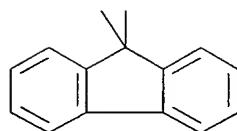
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CN 9H-Fluorene-9-carboxamide, 9-[4-[4-[4-[(phenylmethyl)[(tetrahydro-2-furanyl)methyl]amino]carbonyl]phenyl]-1-piperazinyl]butyl]-N-(2,2,2-trifluoroethyl)-(9CI) (CA INDEX NAME)

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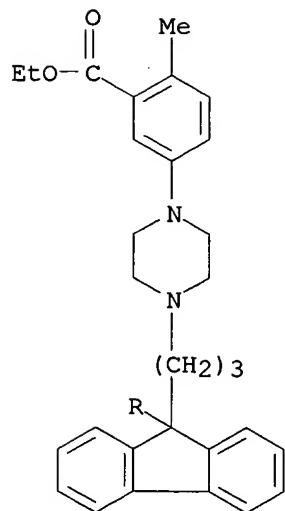
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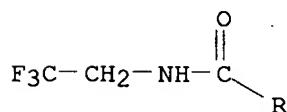
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CN Benzoic acid, 2-methyl-5-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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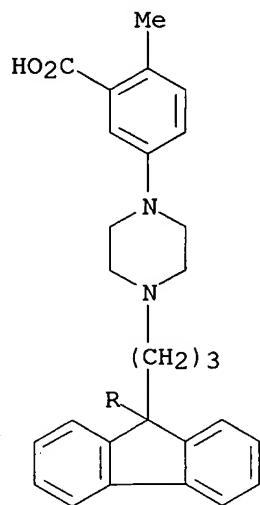
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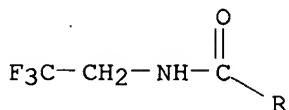
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CN Benzoic acid, 2-methyl-5-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl- (9CI) (CA INDEX NAME)

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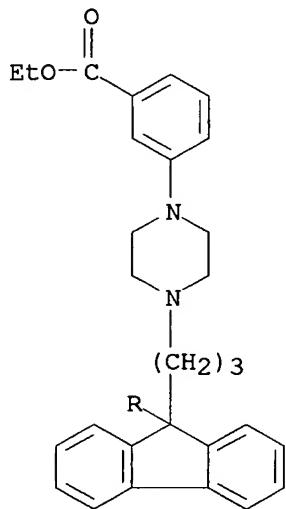
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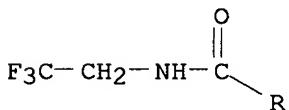
RN 301668-32-6 CAPLUS

CN Benzoic acid, 3-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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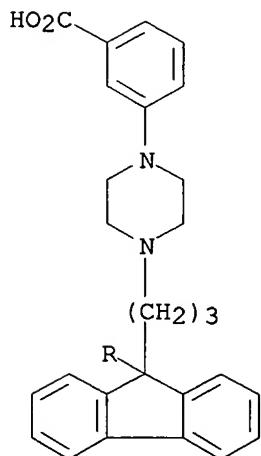
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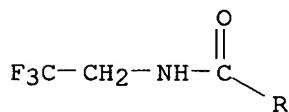
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CN Benzoic acid, 3-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl- (9CI) (CA INDEX NAME)

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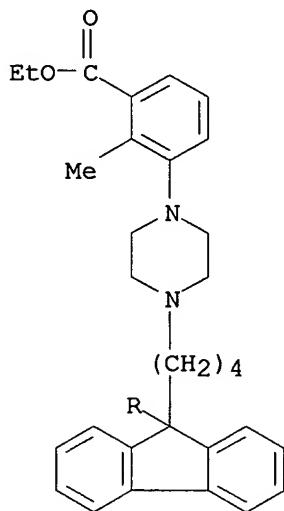
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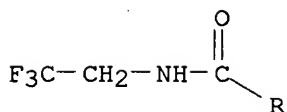
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CN Benzoic acid, 2-methyl-3-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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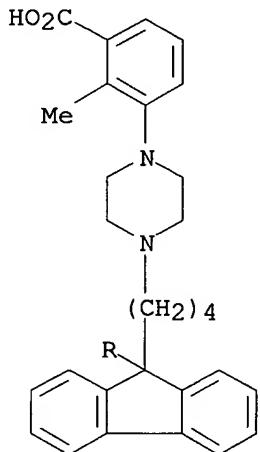
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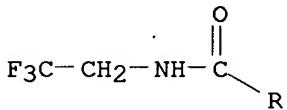
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CN Benzoic acid, 2-methyl-3-[4-[4-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]butyl]-1-piperazinyl]-(9CI) (CA INDEX NAME)

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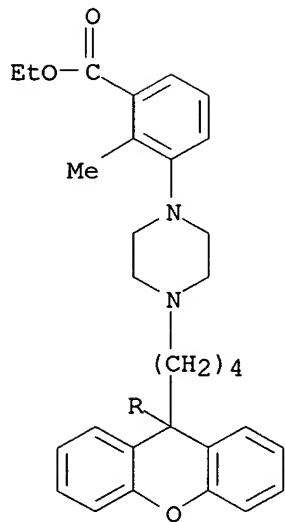
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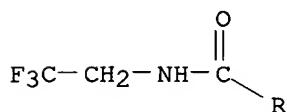
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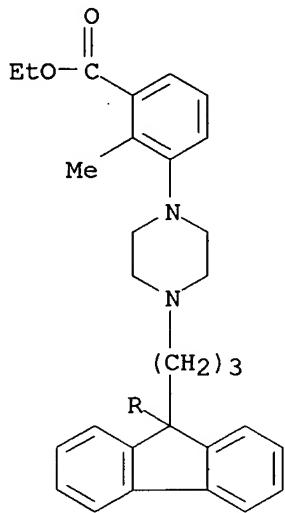
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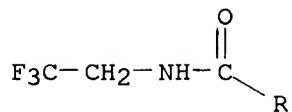


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CN Benzoic acid, 2-methyl-3-[4-[3-[9-[(2,2,2-trifluoroethyl)amino]carbonyl]-9H-fluoren-9-yl]propyl]-1-piperazinyl-, ethyl ester (9CI) (CA INDEX NAME)

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RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1969:449649 CAPLUS
 DN 71:49649
 TI Butynyl xanthenes and fluorenes
 IN Cavalla, John F.; Simpson, Roy; White, Alan Chapman
 PA Wyeth, John, and Brother Ltd.
 SO Brit., 8 pp.
 CODEN: BRXXAA
 DT Patent
 LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 1147832		19690410	GB	19670213

GI For diagram(s), see printed CA Issue.

AB The title compds. exhibiting antiulcer, central nervous system depressant, and antiinflammatory activity in exptl. animals were prep'd. from propynyl derivs. by the Mannich reaction. To a soln. of 5.5 g. I (R1 = CO2Me, R2 = H) and 17.6 g. Et2NH in 50 ml. dioxane was added 30 mg. CuCl and 0.72 g. paraformaldehyde (Ia) and the mixt. heated on a steam bath for 1 hr. The solvent was evapd., and the residue in aq. HCl was extd. with CH2Cl2 to give 3.7 g. fluorene deriv. I (R2 = CH2NR2) (II).HCl (R1 = CO2Me, R = Et) (III), m. 193-4.5.degree.. The base from 3 g. III was refluxed with 3 ml. MeI in 20 ml. Me2CO for 2 hrs. to give 3.38 g. of the corresponding methiodide, m. 132-3.degree. (Me2CO-Et2O). The following II (R1 = CO2Me) were similarly prep'd. (NR2, m.p. of hydrochloride, and m.p. of methiodide given): morpholino, 188-9.5.degree., 200-2.degree.; PhCH2NMe, 180-1.degree., 193-5.degree.; 1-pyrrolidinyl, 206-7.degree., 190-2.degree.; iso-Pr2N, 196-8.degree., 158-9.degree.; 4-phenyl-1-piperazinyl, 183-4.degree., -; HOCH2CH2NMe, 167.9.degree., -; morpholino (IV), 190-2.degree., -. A soln. of 18 g. IV base in 100 ml. tetrahydrofuran (THF) was added slowly to a stirred suspension of 6.4 g. LiAlH4 in 50 ml. THF and the mixt. refluxed 3 hrs. to give 14.7 g. II. HCl (R1 = CH2OH, NR2 = morpholino), m. 239-40.degree. (iso-PrOH-Et2O). Similarly prep'd. were II.HCl (R1 = CH2OH, R = iso-Pr), m. 242-4.degree., and II.HCl (R1 = CH2OH, R = Et). 0.5 H2O, m. 149-51.degree.. A mixt. of 12 g. Me 9-xanthene carboxylate, 2.4 g. NaH (508 in oil), and 50 ml. HCONMe2 (DMF) was stirred at room temp. for 30 min., treated dropwise with 6 g. CH.tplbond.CCH2Br in 50 ml. DMF and stirred for 1 hr. to give 11.6 g. Me 9-(2-propynyl)-9-xanthene carboxylate (V), m. 115-17.degree.. Refluxing a mixt. 5 g. V, 0.6 g. Ia, 1.74 g. morpholine, and CuCl in dioxane for 4 hrs. gave 5.69 g. VI.HCl (R1 = CO2Me, NR2 = morpholino), m. 189-90.degree. (iso-PrOH-Et2O). Similarly prep'd. were VI.HCl (R1 = CO2Me, R = iso-Pr) (VII), m. 209-10.degree., VI.HCl (R1 = CO2Me, R = Et), m. 198-9.degree., and VI.HCl (R1 = CO2Me, R = PhCH2NMe), m. 178-9.degree.. The methiodide prep'd. from VII base m. 157-8.degree. (MeOEt2O). Allowing a soln. of 1.9 g. III and 20 ml. 33% methanolic MeNH2 to stand for 2 days, evapg., and converting the resulting base to the hydrochloride gave II.HCl (R1 = CONHMe, R = Et), m. 208-9.degree.. Treatment of III with methanolic NH3 for 2 weeks at room temp. gave II.HCl (R1 = CONH2, R = Et), m. 239-40.degree.. II.HCl (R1 = CONHMe, R = iso-Pr), m. 206-8.degree., was similarly prep'd. Heating VII with excess 33% ethanolic MeNH2 in an autoclave at 100.degree. for 24 hrs. gave VI (R1 = CONHMe, R = iso-Pr), m. 108-9.degree. (petroleum ether), while with methanolic NH3 at 150.degree. for 4 days, VII gave VI (R1 = CONH2, R = iso-Pr), m. 97-8.degree. (petroleum ether). To a suspension of NaNH2 in 900 ml. liq. NH3 was added 67.8 g. 9-xanthene carboxylic acid. To the red soln. 1 l. Et2O was added, the mixt. stirred 1.5 hrs. and treated with 51.4 g. CH.tplbond.CCH2Br to

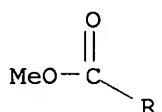
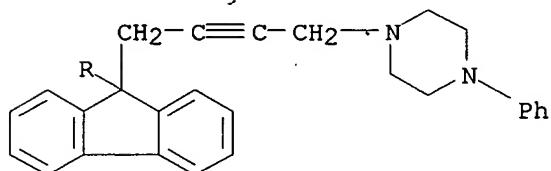
give 52.7 g. 9-(2-propynyl)-9-xanthene carboxylic acid (VIII), m. 199-202.degree. (C₆H₆). The acid chloride (IX) of VIII was prepd. by refluxing 9.05 g. VIII with 15 ml. SOC₁₂ in 78 ml. C₆H₆ for 1.5 hrs. Re-fluxing IX with 60 ml. 25% ethanolic Me₂NH gave 6.72 g. N,N-dimethyl-9-(2-propynyl)-9-xanthene carboxamide (X), m. 175-8.degree.. Reacting 2.91 g. X, 0.88 g. Et₂NH, 0.36 g. Ia, and 50 mg. CuCl in dioxane gave 2.56 g. VI.HCl.0.5 H₂O (R₁ = CONMe₂, R = Et) m. 183-7.degree..

IT 23055-59-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 23055-59-6 CAPLUS

CN Fluorene-9-carboxylic acid, 9-[4-(4-phenyl-1-piperazinyl)-2-butynyl]-, methyl ester, hydrochloride (8CI) (CA INDEX NAME)



● HCl

10/089024

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